

FIG.1

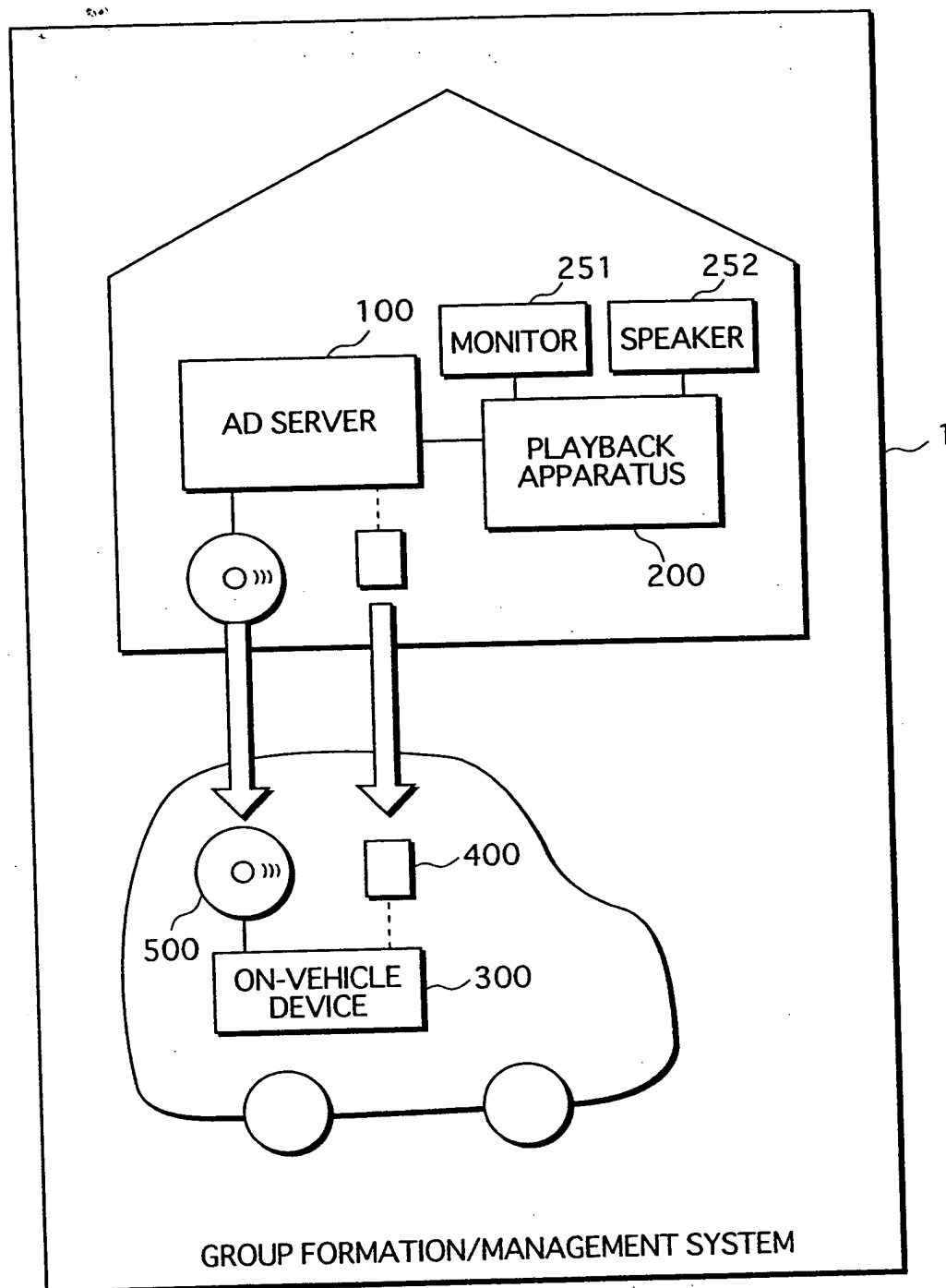


FIG. 2 100

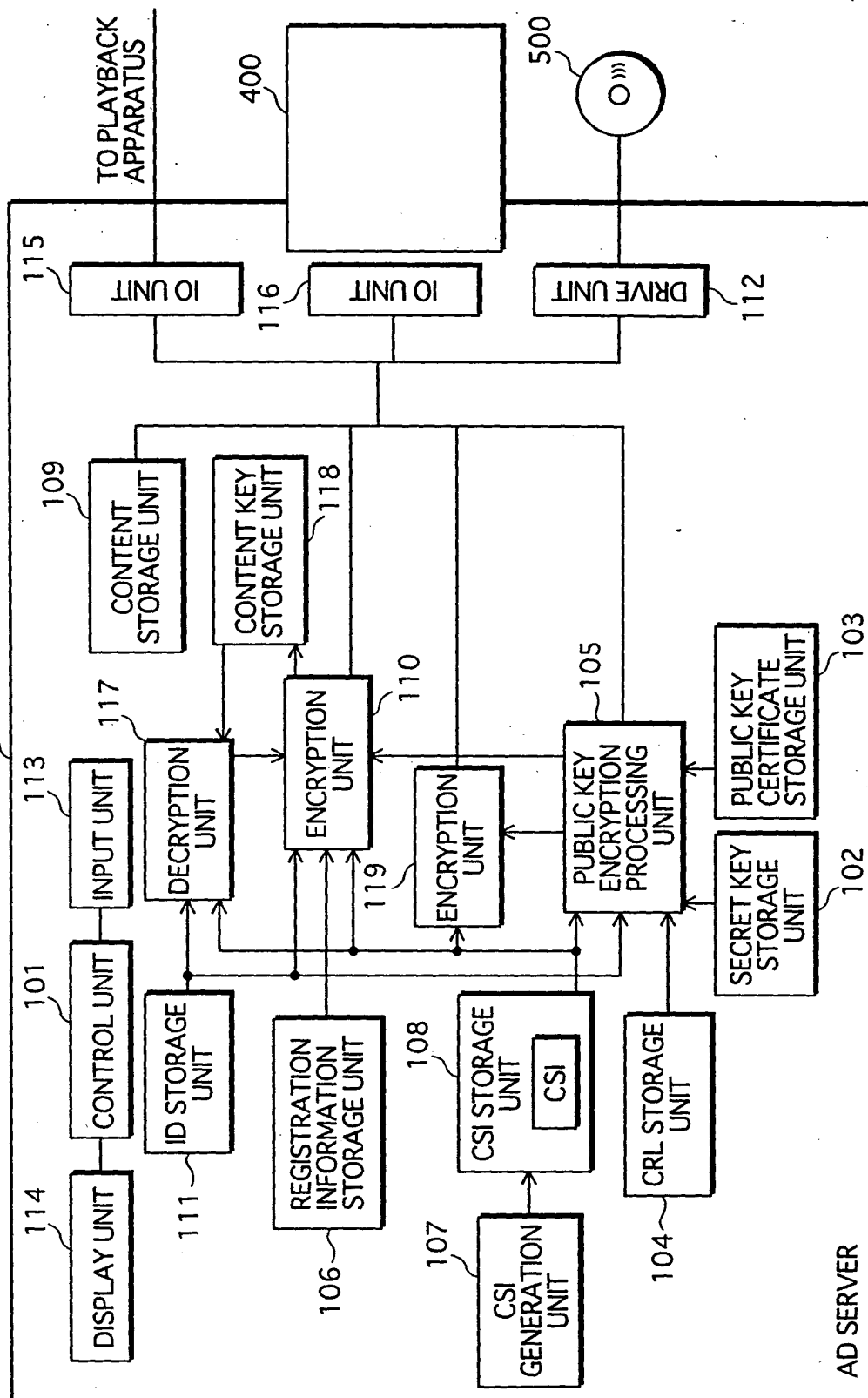


FIG.3A

REGISTRATION INFORMATION	
DEVICE ID	
MAXIMUM	2
REGISTERED	0
REMAINING	2
IC CARD ID	ID_4

FIG.3B

REGISTRATION INFORMATION	
DEVICE ID	ID_2
	ID_3
MAXIMUM	2
REGISTERED	2
REMAINING	0
IC CARD ID	ID_4

FIG. 4

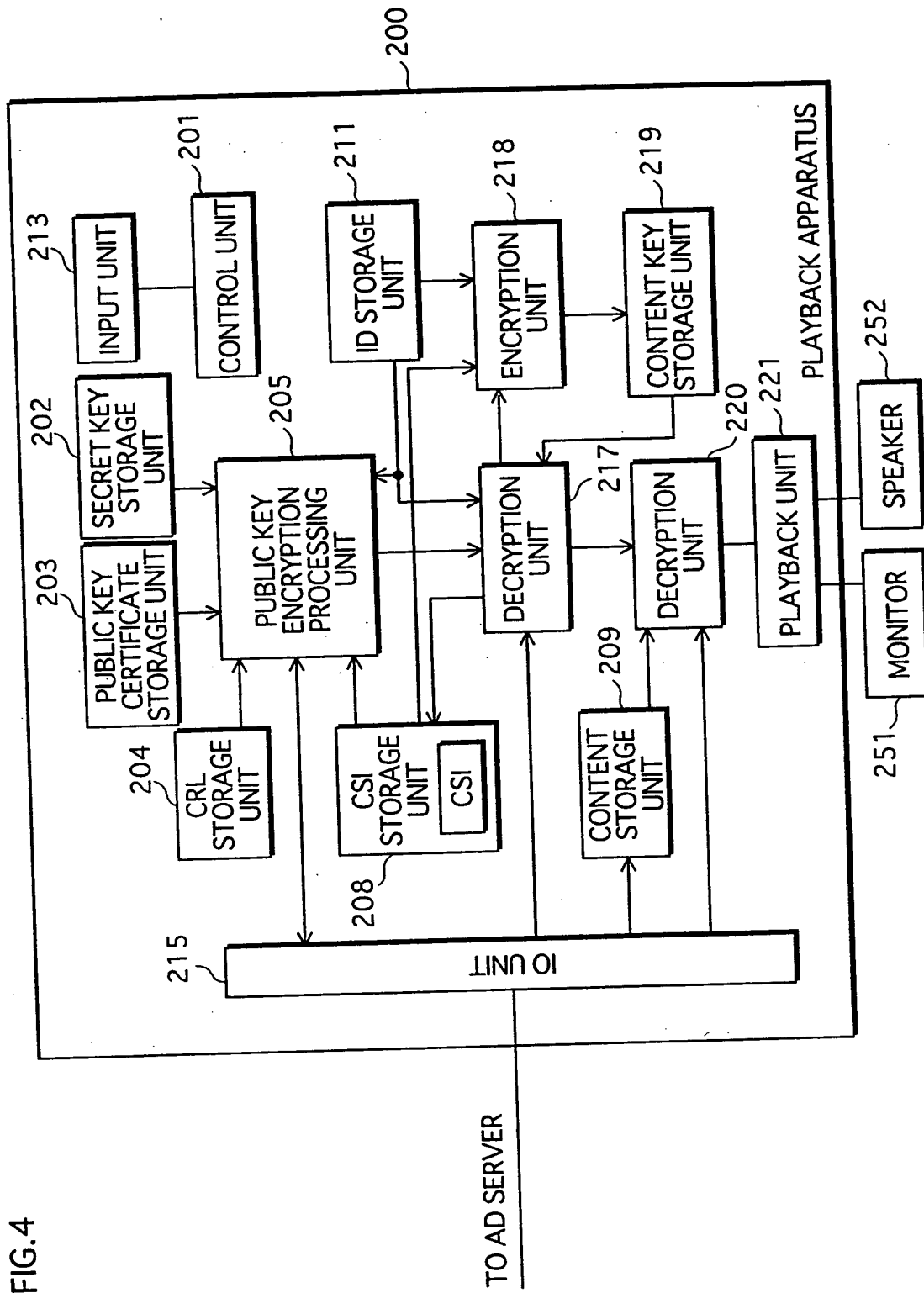


FIG. 5

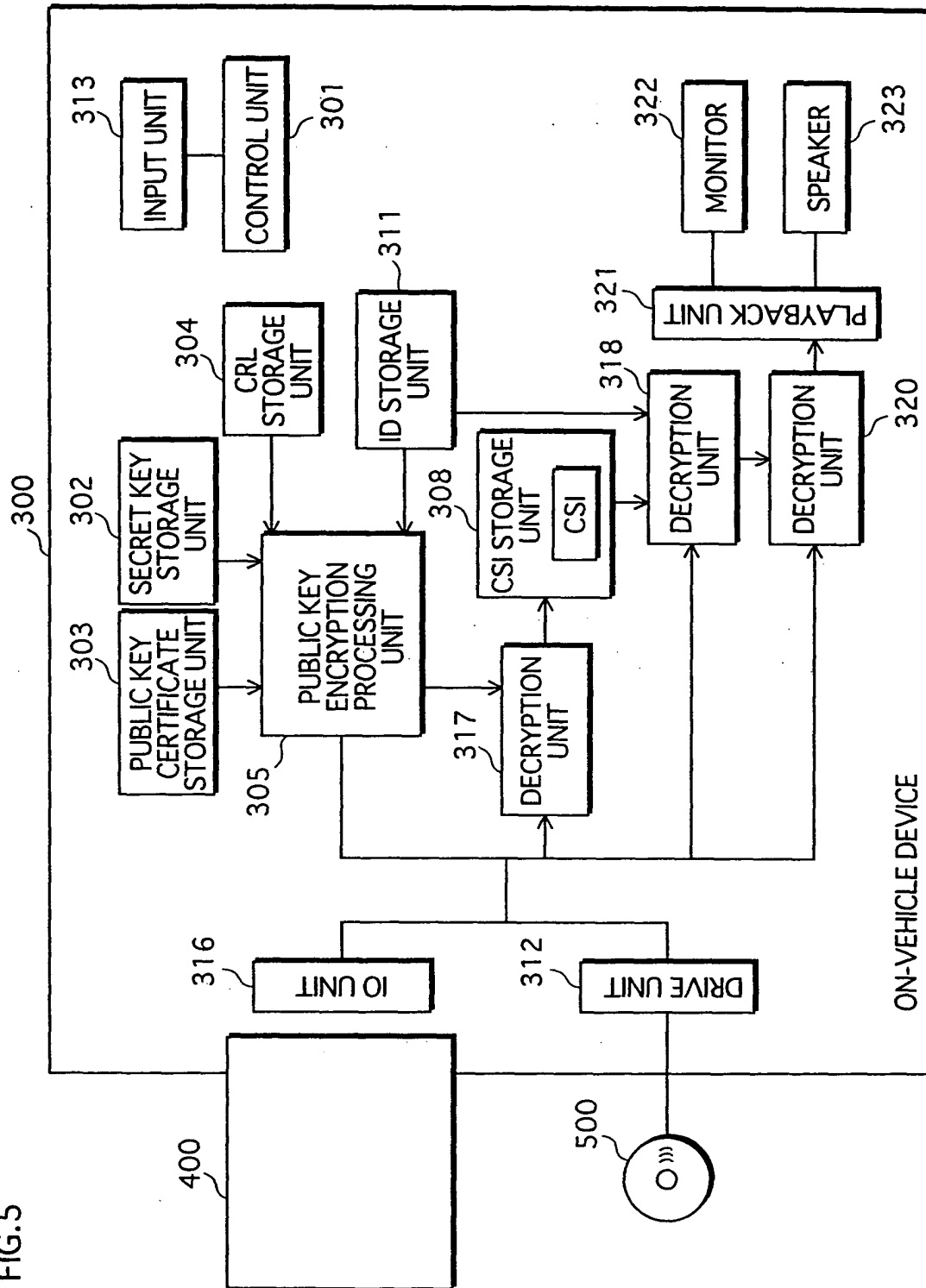


FIG. 6

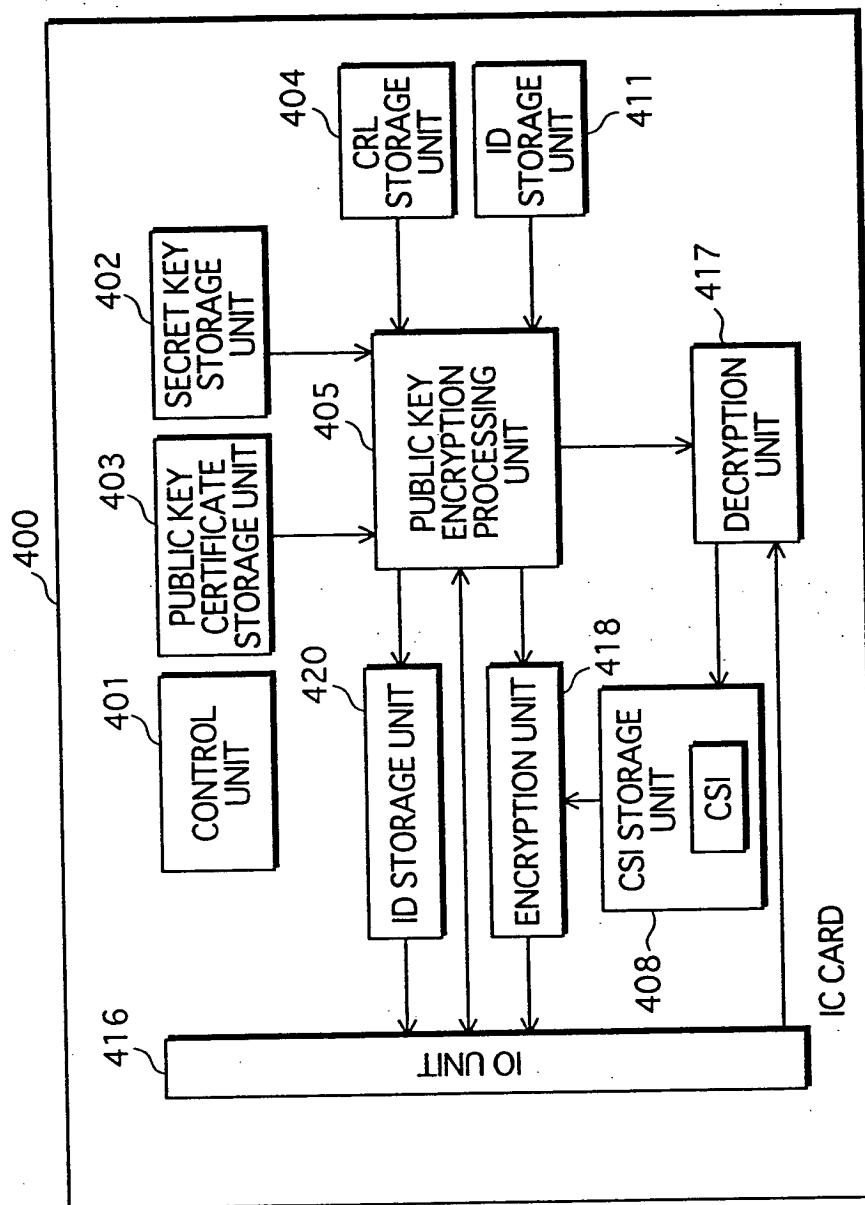


FIG.7

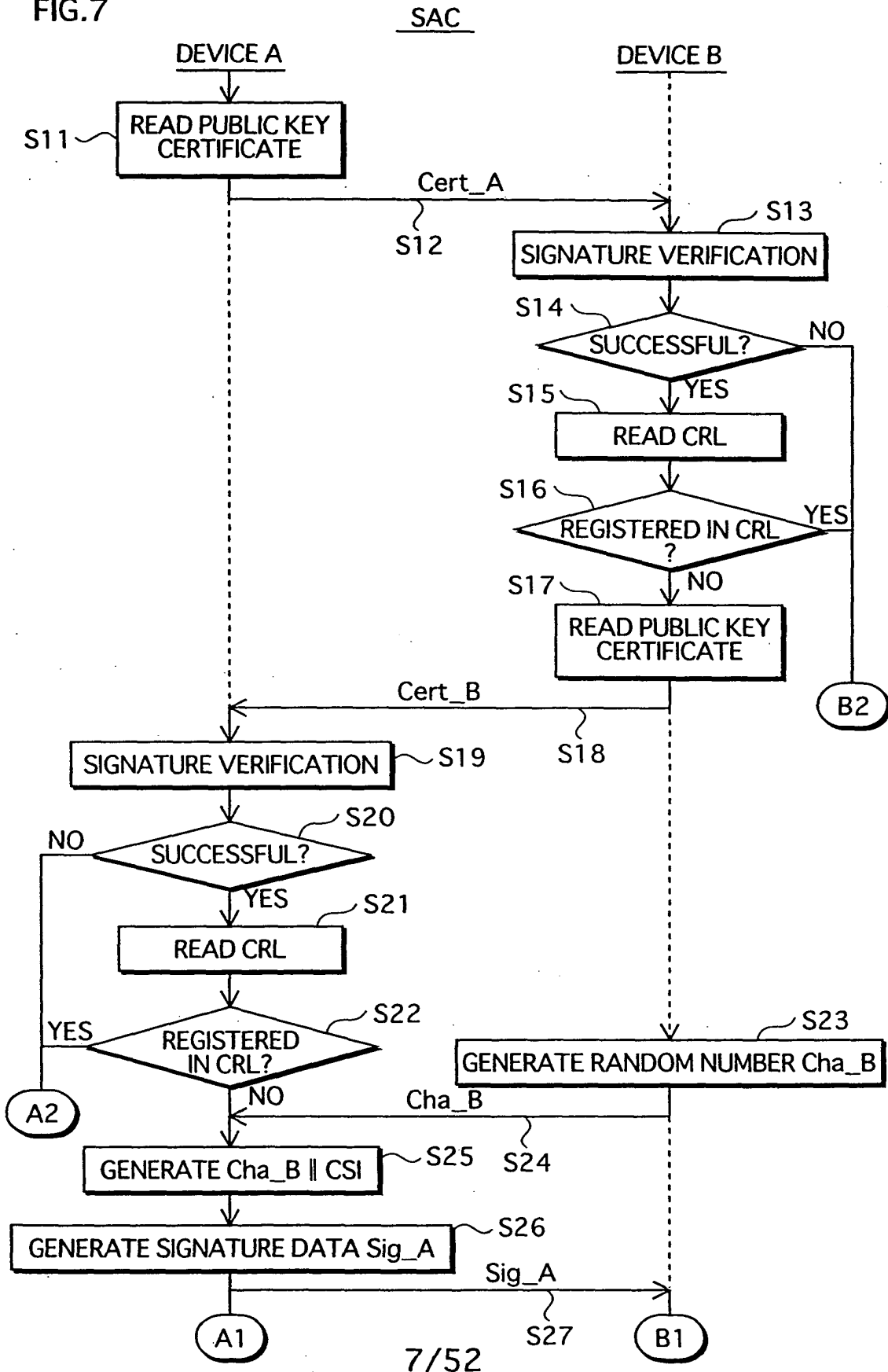


FIG.8

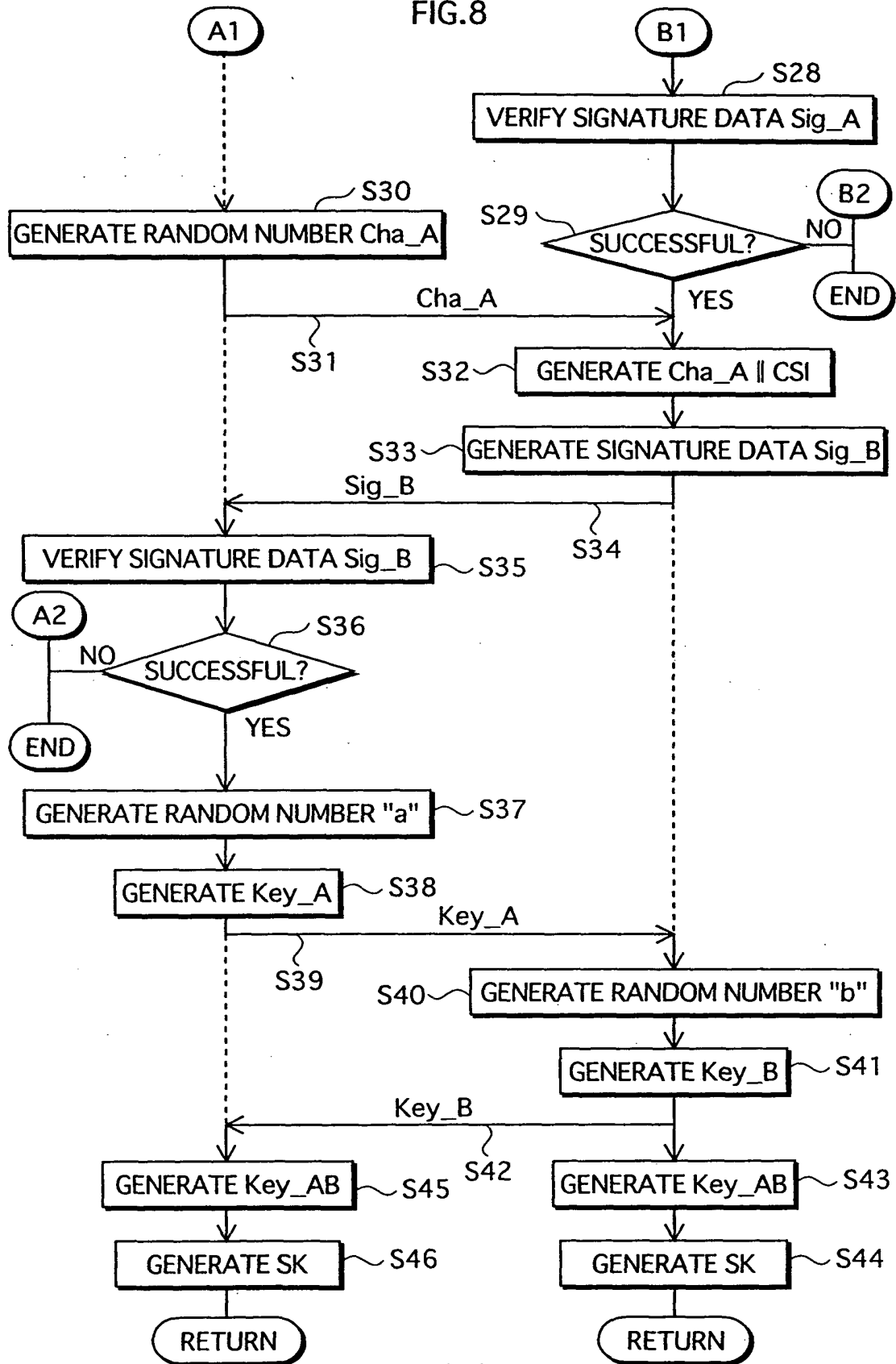


FIG.9

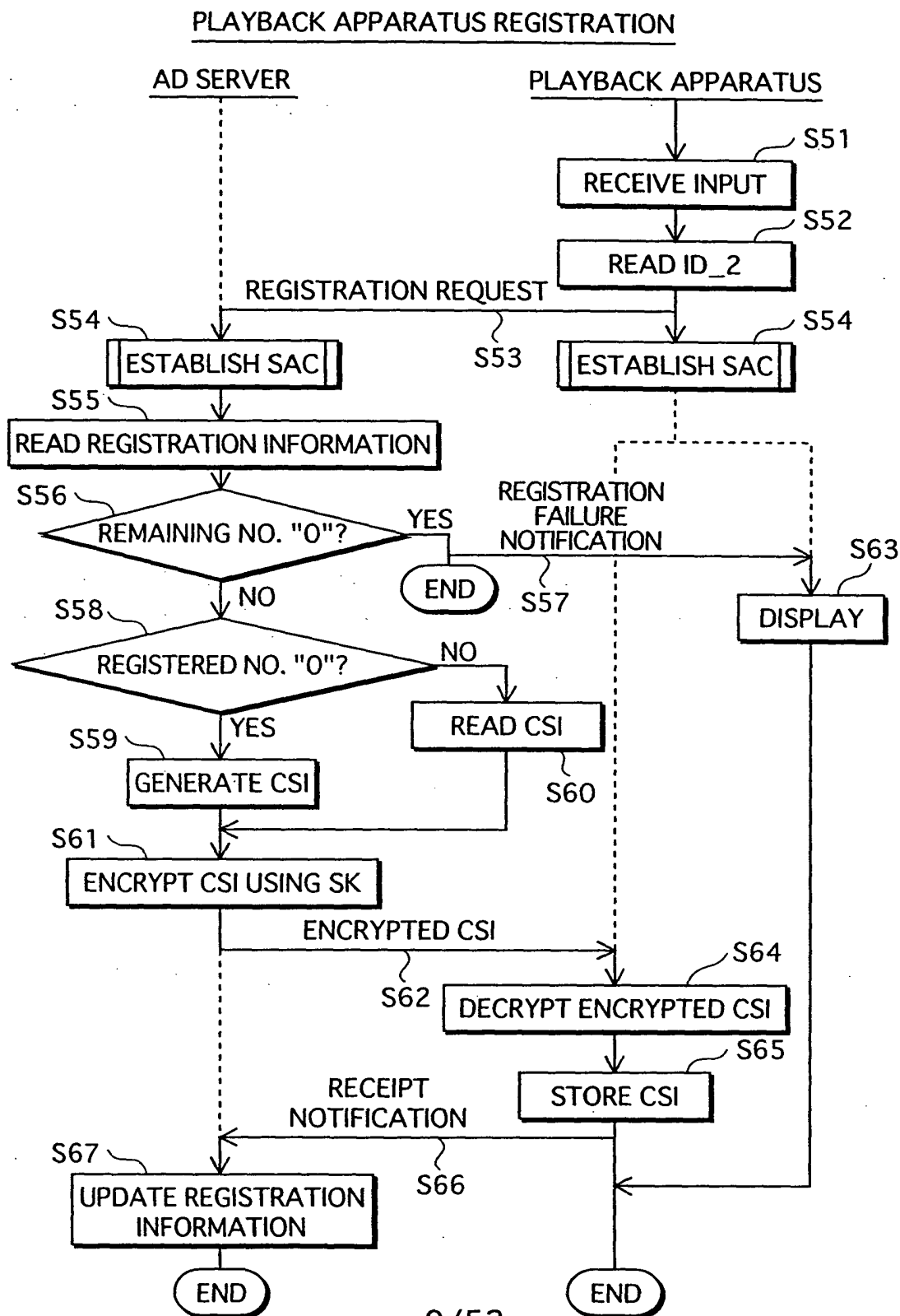


FIG.10

ON-VEHICLE REGISTRATION (1)

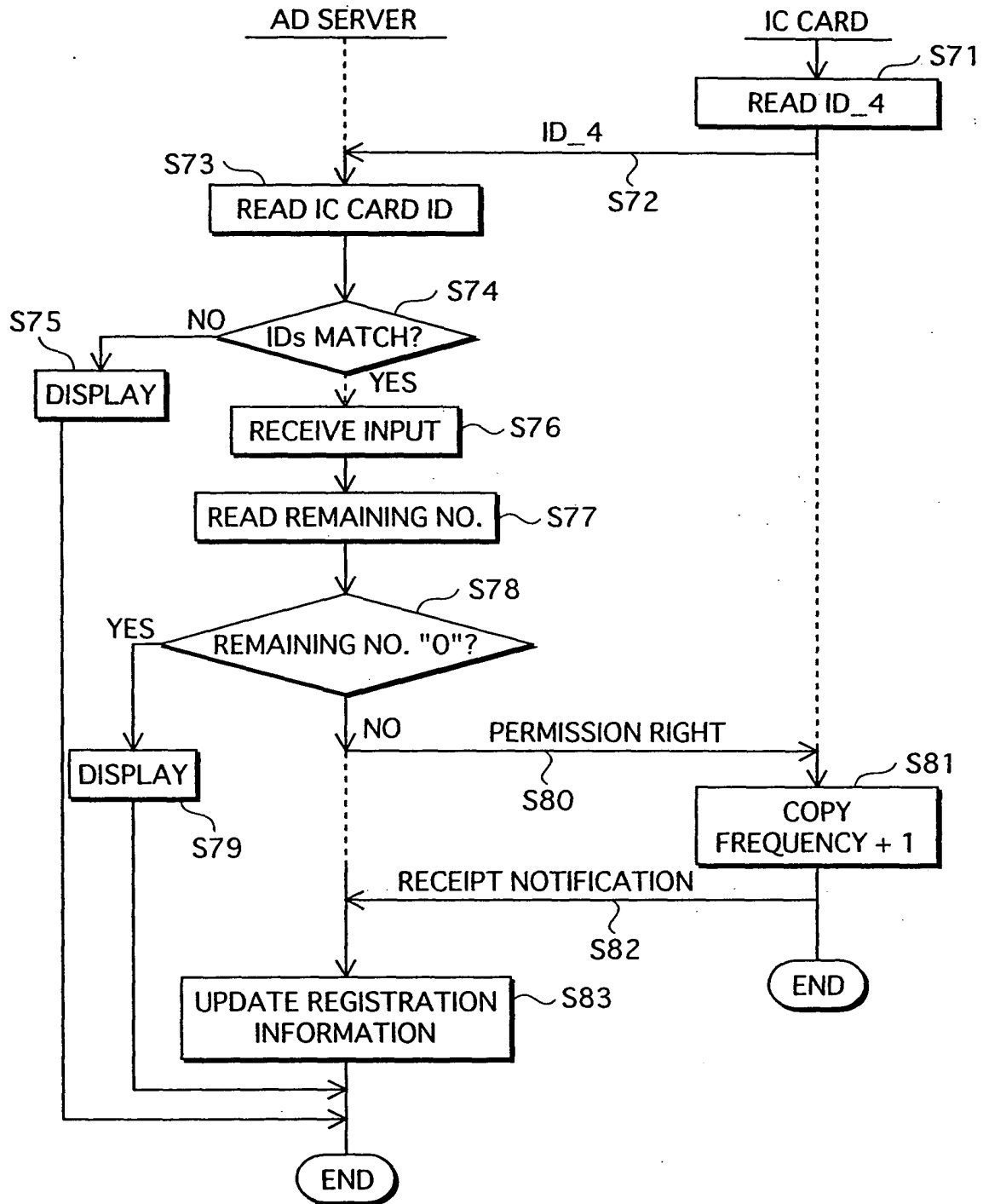


FIG.11

ON-VEHICLE REGISTRATION (2)

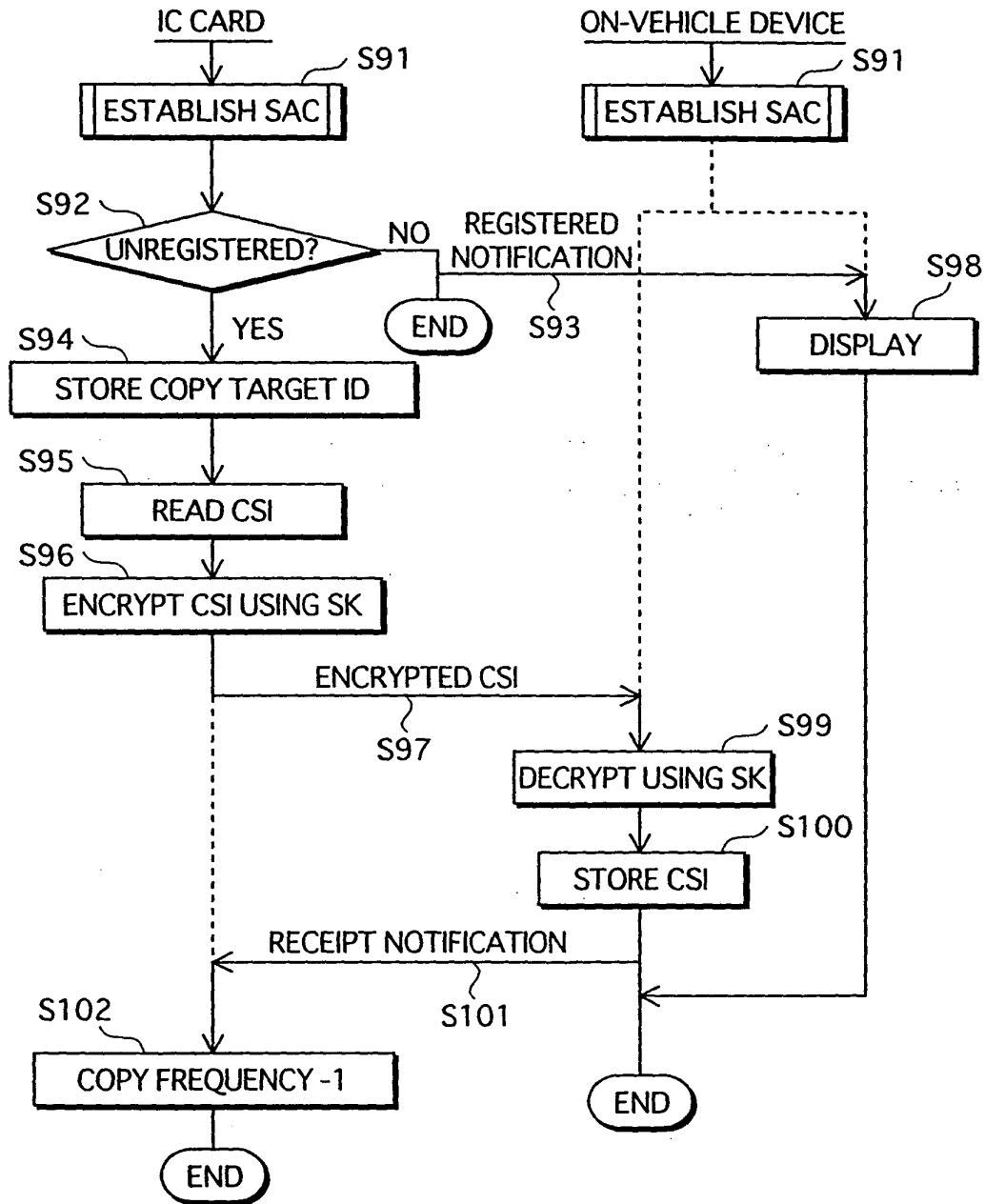


FIG.12

CONTENT DELIVERY

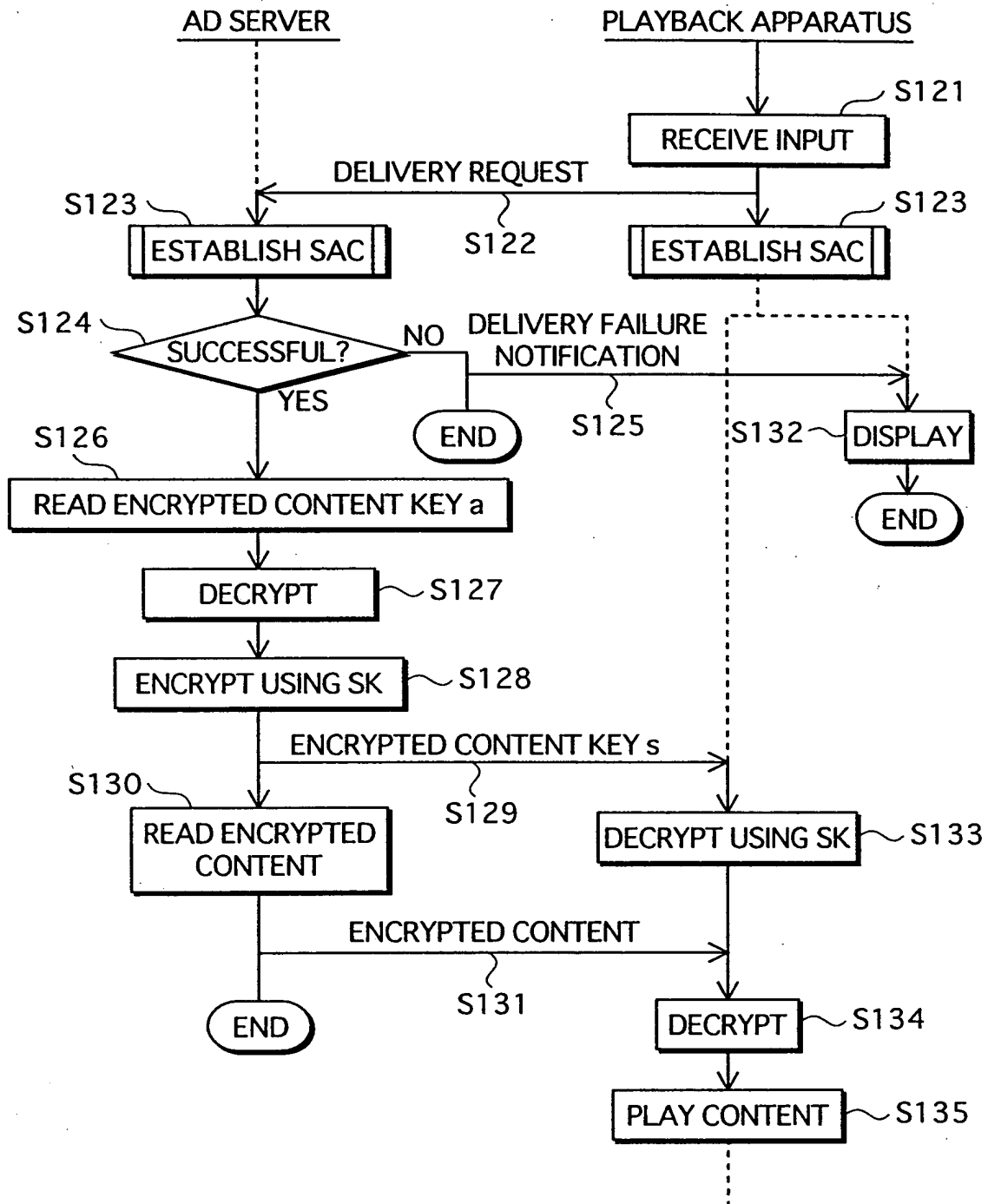


FIG.13

CONTENT DELIVERY

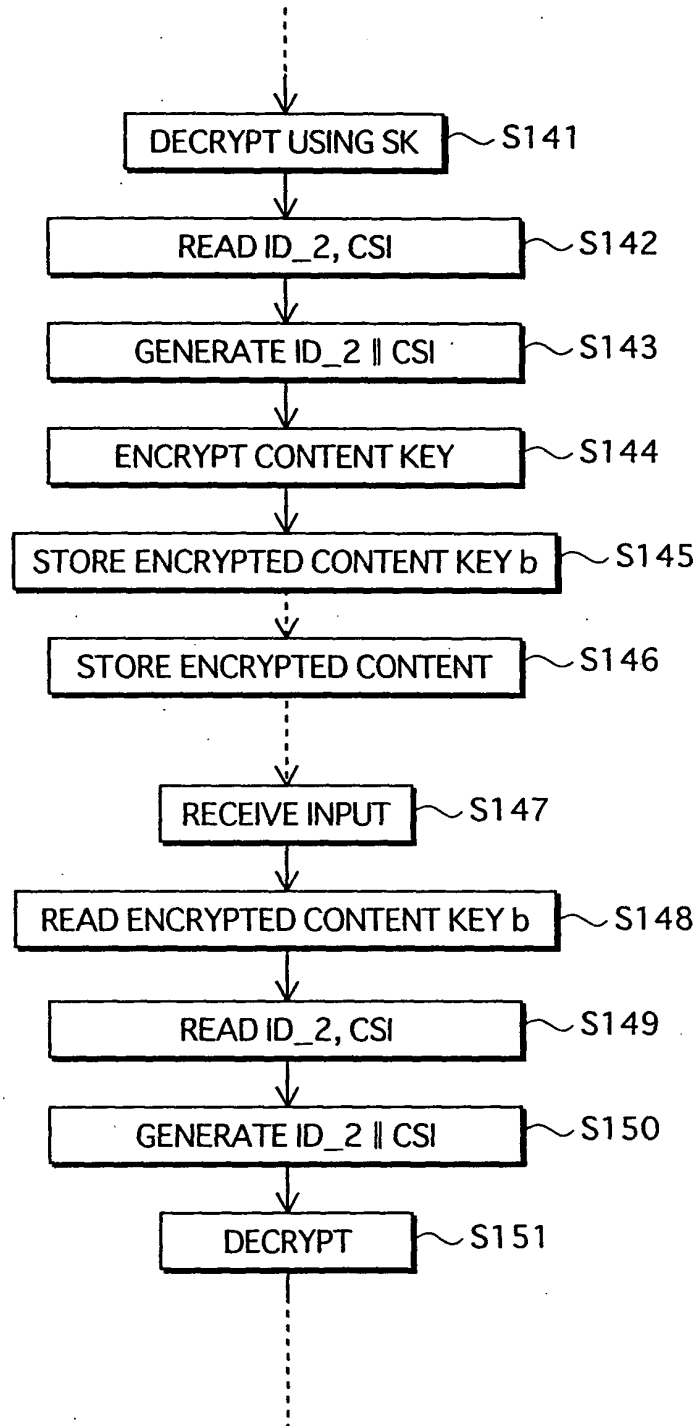


FIG.14

RECORDING ONTO DVD

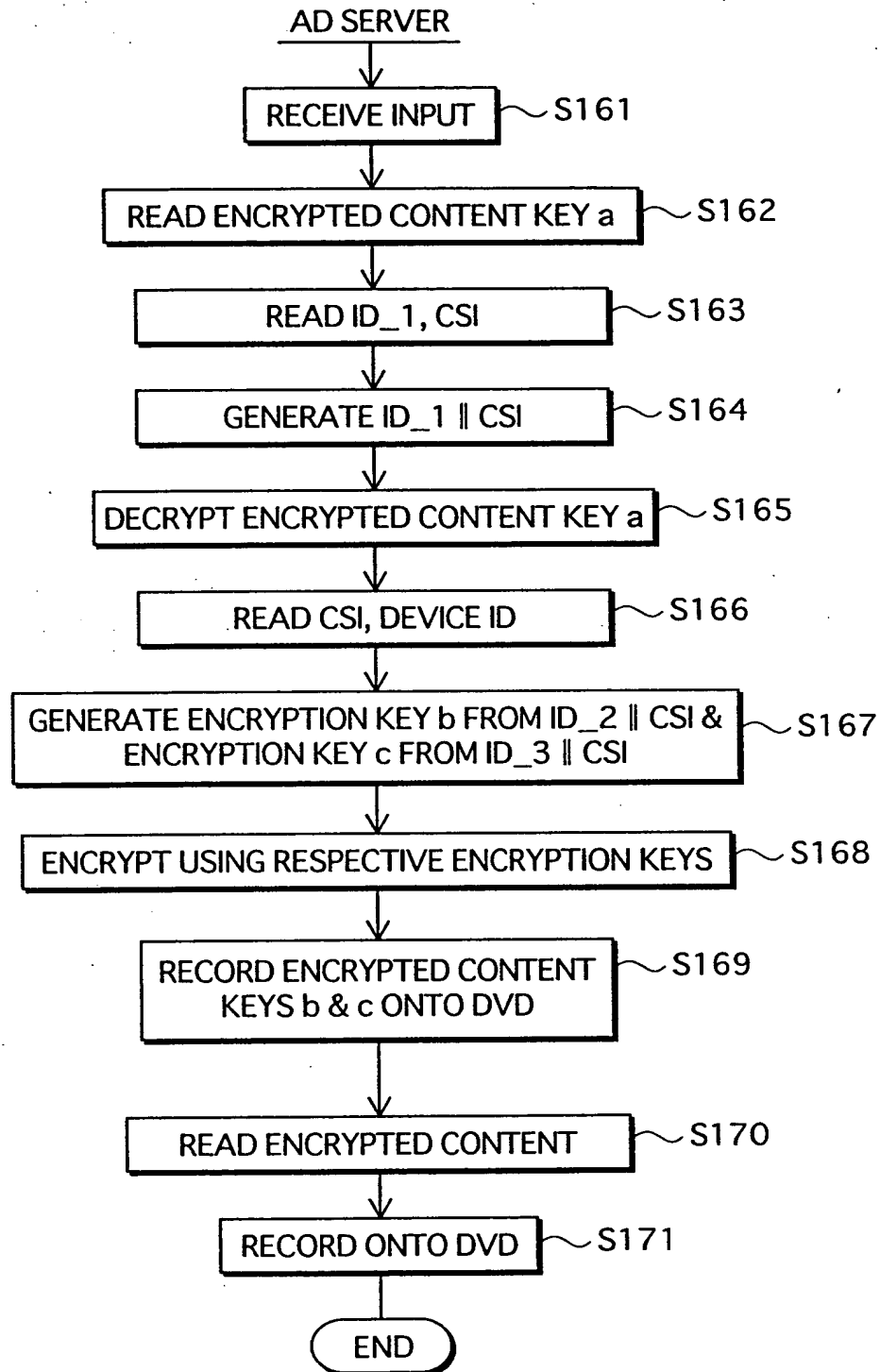


FIG.15

WITHDRAWAL

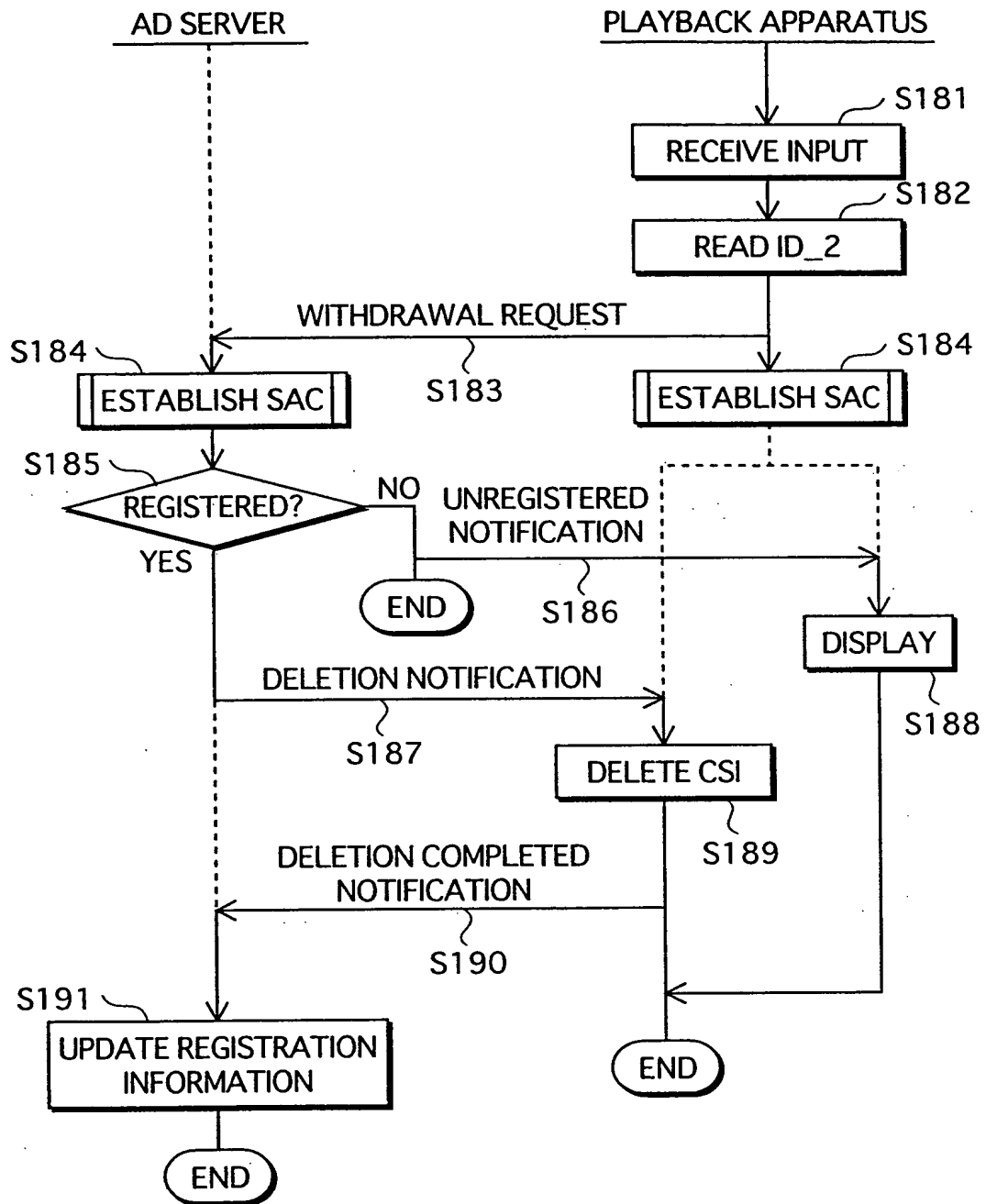


FIG.16

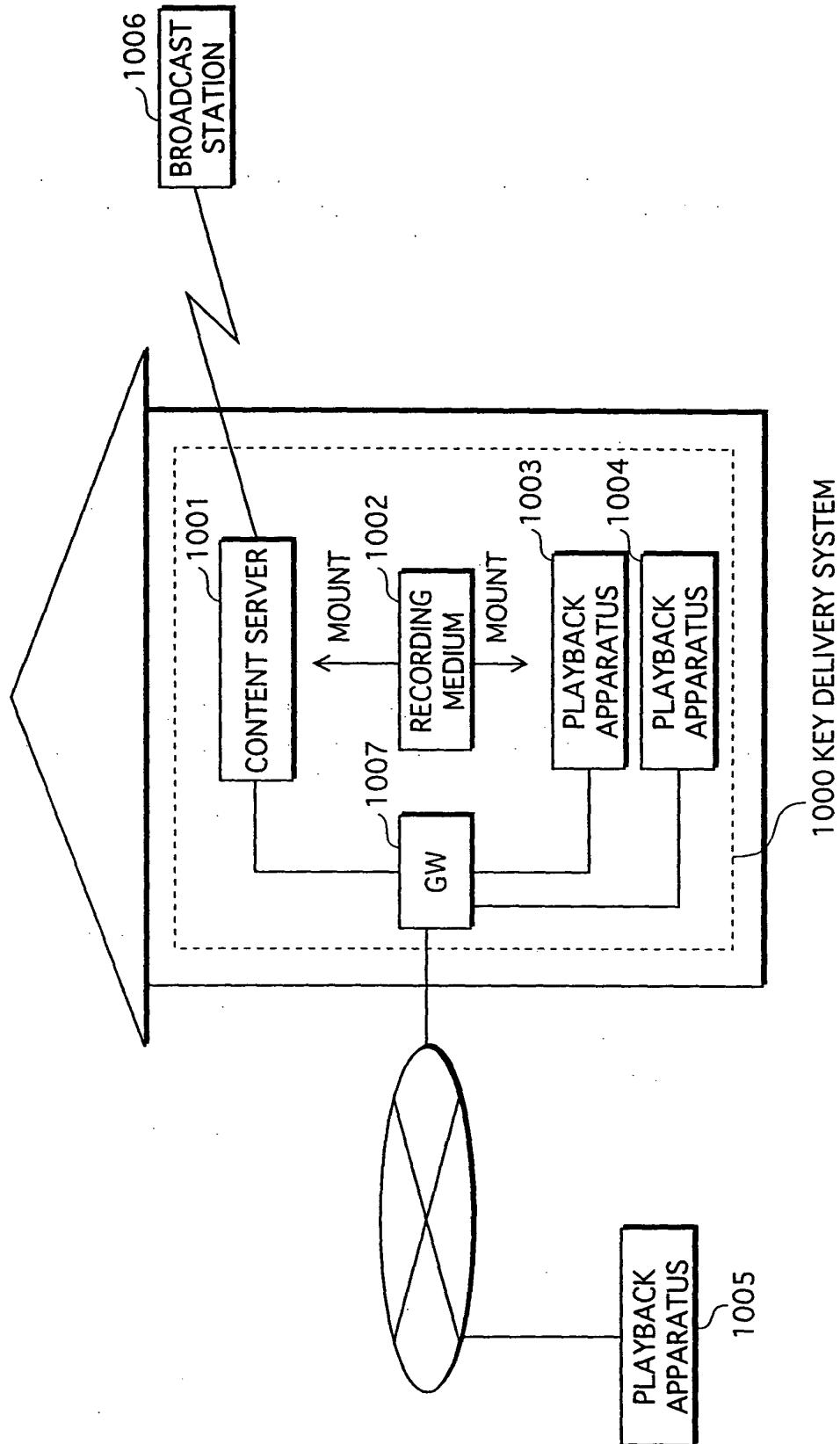


FIG. 10 is a block diagram of a content management system. The system includes the following units and their interconnections:

- RECEPTION UNIT (1014)** is connected to the **CONTENT ACQUISITION UNIT (1015)**.
- CONTENT ACQUISITION UNIT (1015)** is connected to the **CONTENT STORAGE UNIT (1011)**.
- CONTENT STORAGE UNIT (1011)** is connected to the **PLAYBACK UNIT (1016)**.
- TIME MANAGEMENT UNIT (1023)** is connected to the **CLOCKING UNIT (1026)** and the **MANAGEMENT INFORMATION STORAGE UNIT (1012)**.
- MANAGEMENT INFORMATION STORAGE UNIT (1012)** is connected to the **CONTENT-KEY CONTROL UNIT (1021)** and the **USAGE-KEY STORAGE UNIT (1013)**.
- CONTENT-KEY CONTROL UNIT (1021)** is connected to the **USAGE-KEY ADVANCE DELIVERY UNIT (1020)** and the **USAGE-KEY CONFIRMATION UNIT (1017)**.
- USAGE-KEY STORAGE UNIT (1013)** is connected to the **USAGE-KEY MONITORING UNIT (1018)**.
- USAGE-KEY MONITORING UNIT (1018)** is connected to the **USAGE-KEY CONFIRMATION UNIT (1017)**.
- USAGE-KEY ADVANCE DELIVERY UNIT (1020)** is connected to the **USAGE-KEY CONFIRMATION UNIT (1017)**.
- USAGE-KEY CONFIRMATION UNIT (1017)** is connected to the **PLAYBACK UNIT (1016)**.
- PLAYBACK UNIT (1016)** is connected to the **INPUT UNIT (1016)**.
- CLOCKING UNIT (1026)** is connected to the **CONTENT-KEY CONTROL UNIT (1021)**.
- CONTENT-KEY CONTROL UNIT (1021)** is connected to the **USAGE-KEY ADVANCE DELIVERY UNIT (1020)**.
- USAGE-KEY ADVANCE DELIVERY UNIT (1020)** is connected to the **USAGE-KEY CONFIRMATION UNIT (1017)**.
- USAGE-KEY CONFIRMATION UNIT (1017)** is connected to the **PLAYBACK UNIT (1016)**.
- PLAYBACK UNIT (1016)** is connected to the **INPUT UNIT (1016)**.
- INPUT UNIT (1016)** is connected to the **IO UNIT (1024)**.
- IO UNIT (1024)** is connected to the **COMMUNICATION UNIT (1025)**.
- COMMUNICATION UNIT (1025)** is connected to the **AUTHENTICATION UNIT (1022)**.
- AUTHENTICATION UNIT (1022)** is connected to the **USAGE-KEY ADVANCE DELIVERY UNIT (1020)**.

TO RECORDING MEDIUM

FIG.18

INFORMATION ID "C1"	ENCRYPTED CONTENT	"CNT1"
"C2"		"CNT2"
"C3"		"CNT3"
• • •		• • •

1011

FIG.19

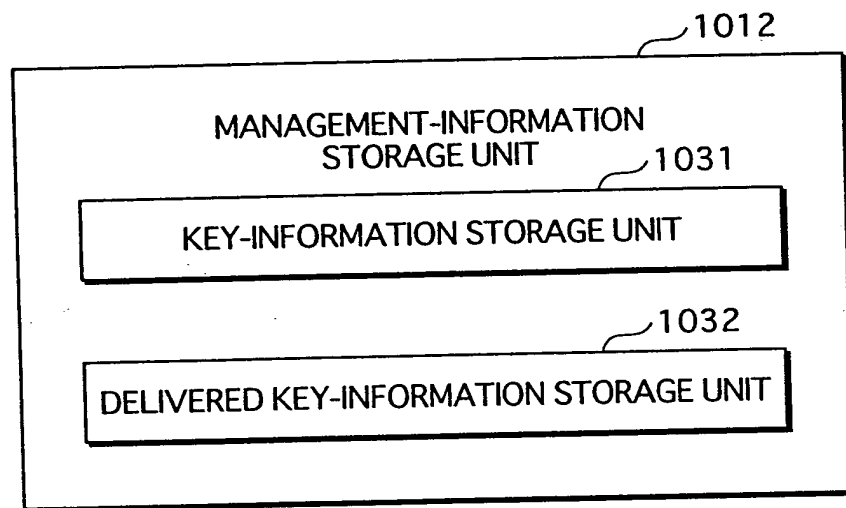


FIG.20

T1001

CONTENT KEY ID	CONTENT KEY	CORRESPONDING -INFORMATION ID	TOTAL NO.	REMAINING NO.	TIME PERIOD RESTRICTION
1	CK1	C1	5	4	24 HRS
2	CK2	C2	5	3	24 HRS
3	CK3	C3	5	5	24 HRS
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

FIG.21

T1002
↙

DELIVERED CONTENT KEY ID	USAGE PERIOD
1	10/7/2003 19 : 00
2	10/7/2003 21 : 30
⋮	⋮
⋮	⋮
⋮	⋮

FIG.22

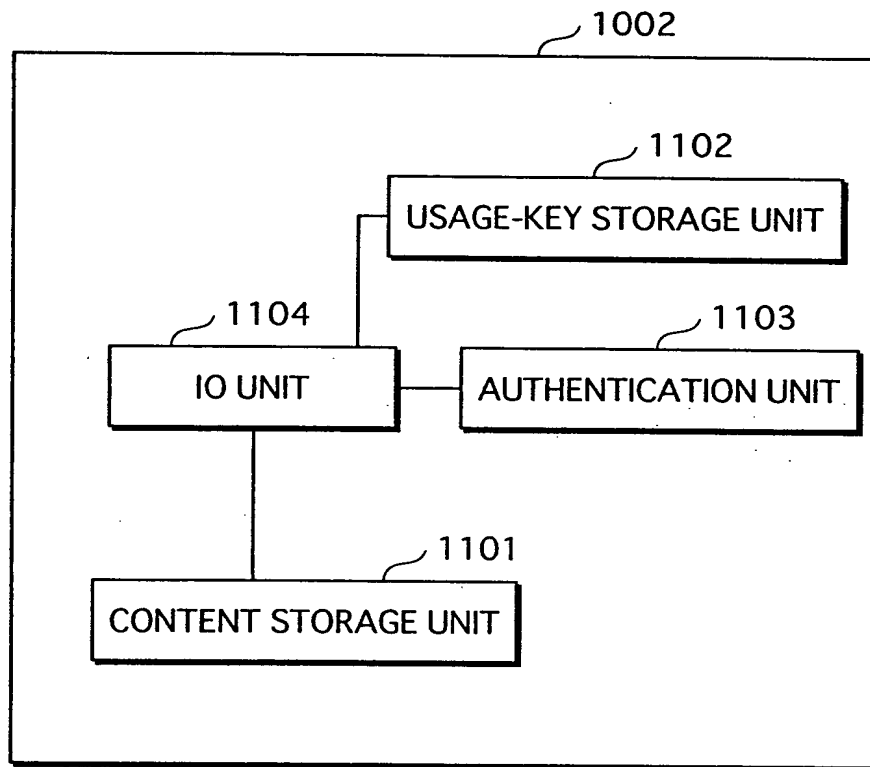


FIG.23

T1101

CONTENT KEY ID	CONTENT KEY	CORRESPONDING -INFORMATION ID	USAGE PERIOD
1	CK1	C1	10/7/2003 19:00
2	CK2	C2	10/7/2003 21:30
.	.	.	.
.	.	.	.
.	.	.	.

FIG.24

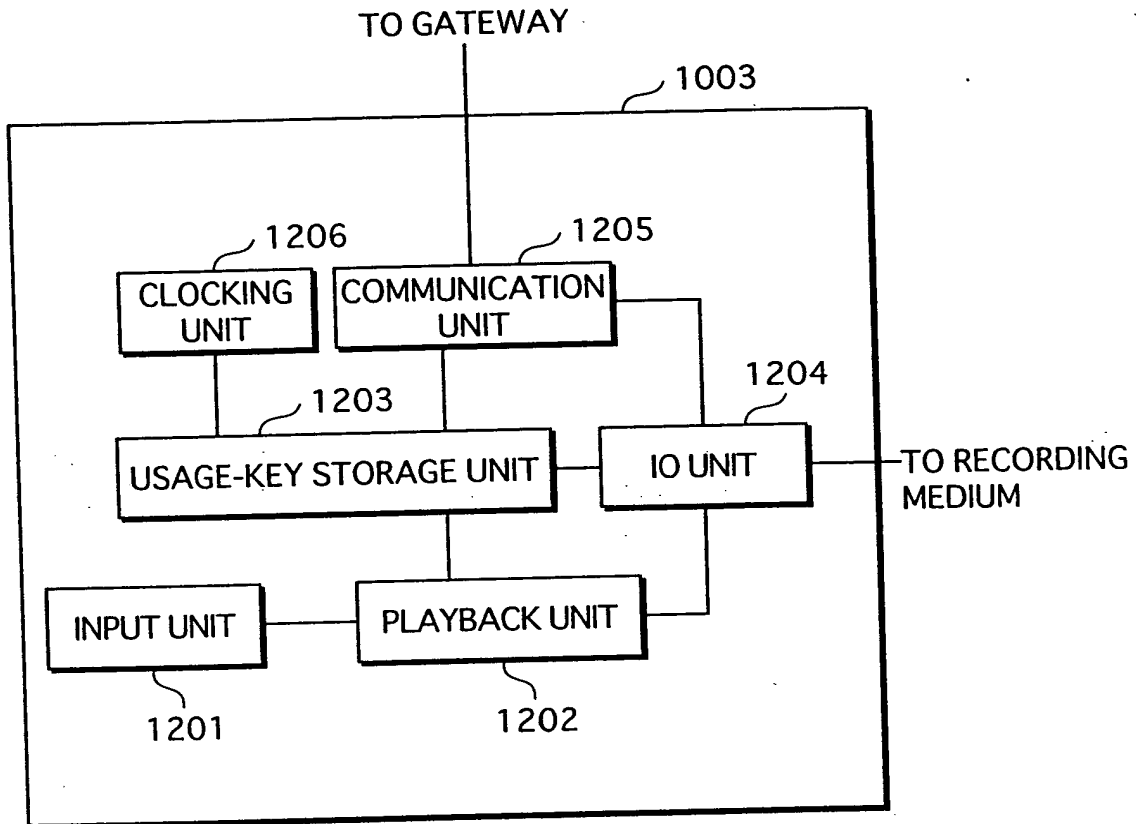


FIG.25

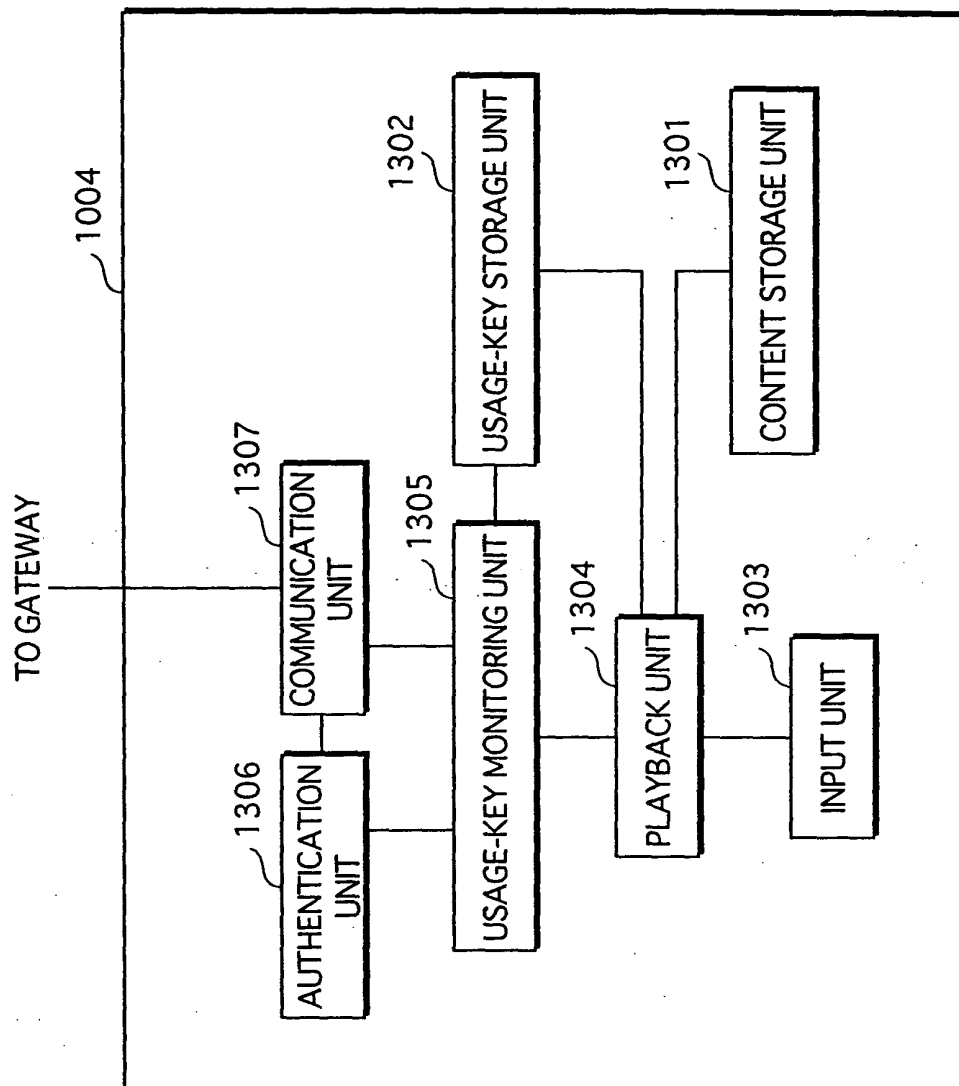


FIG.26

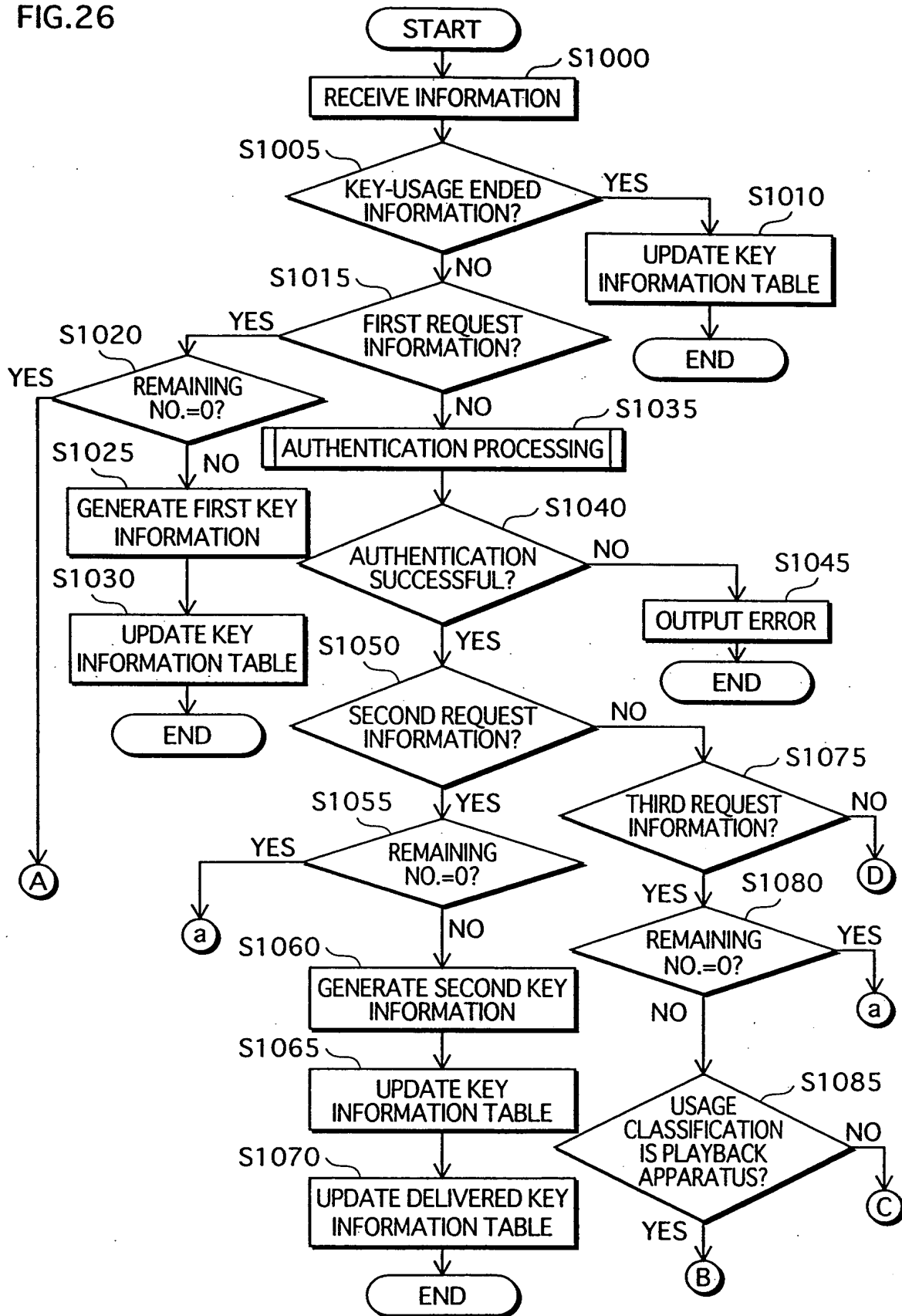


FIG.27

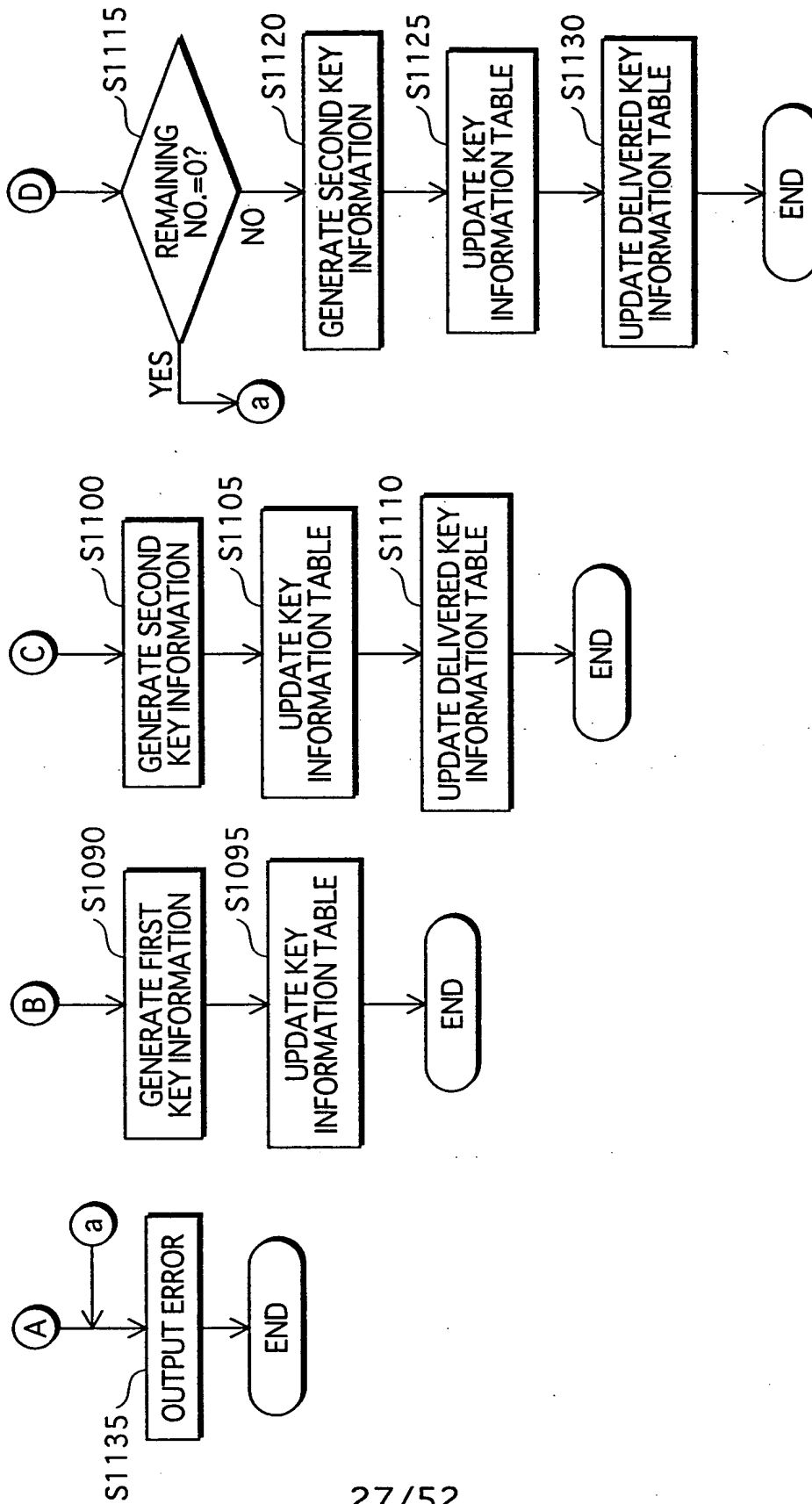


FIG.28

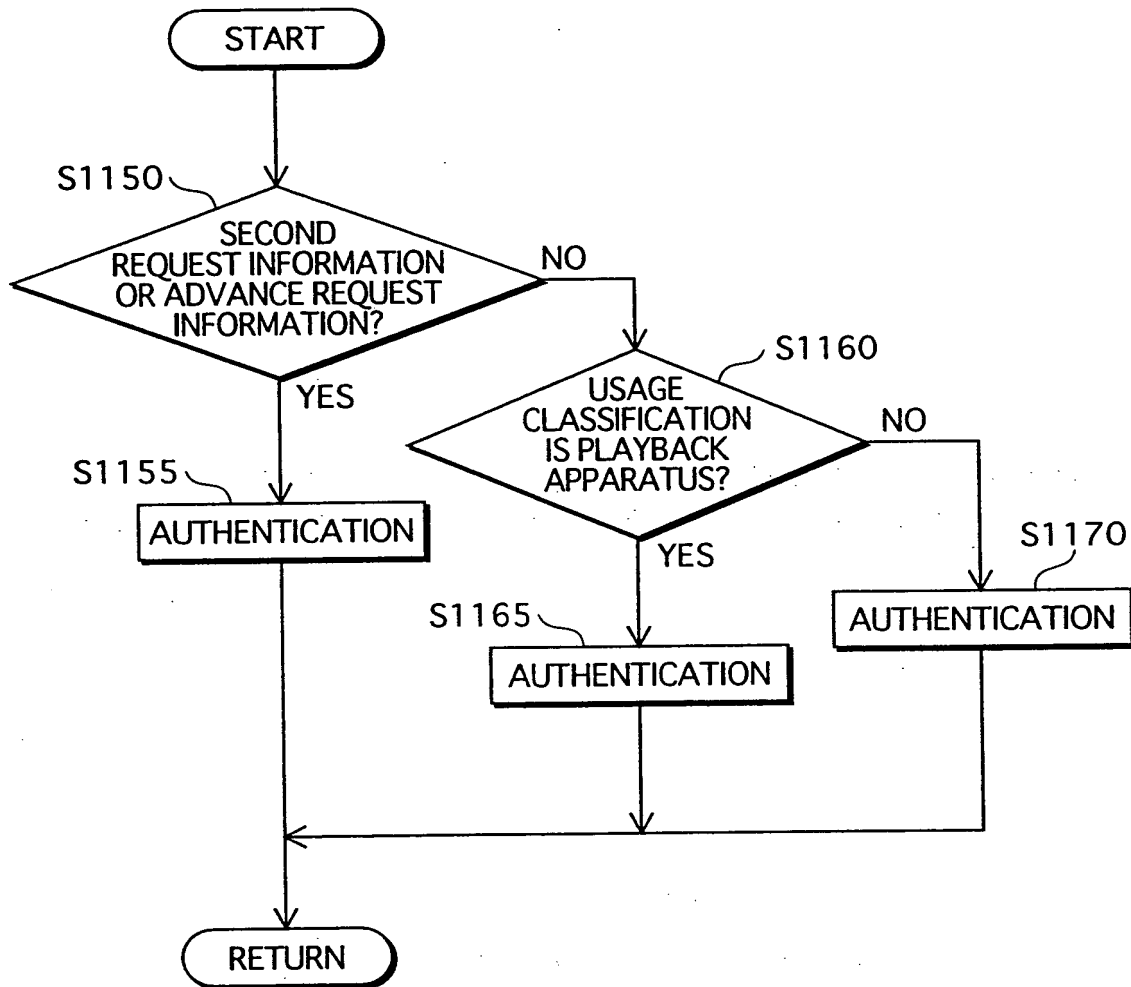
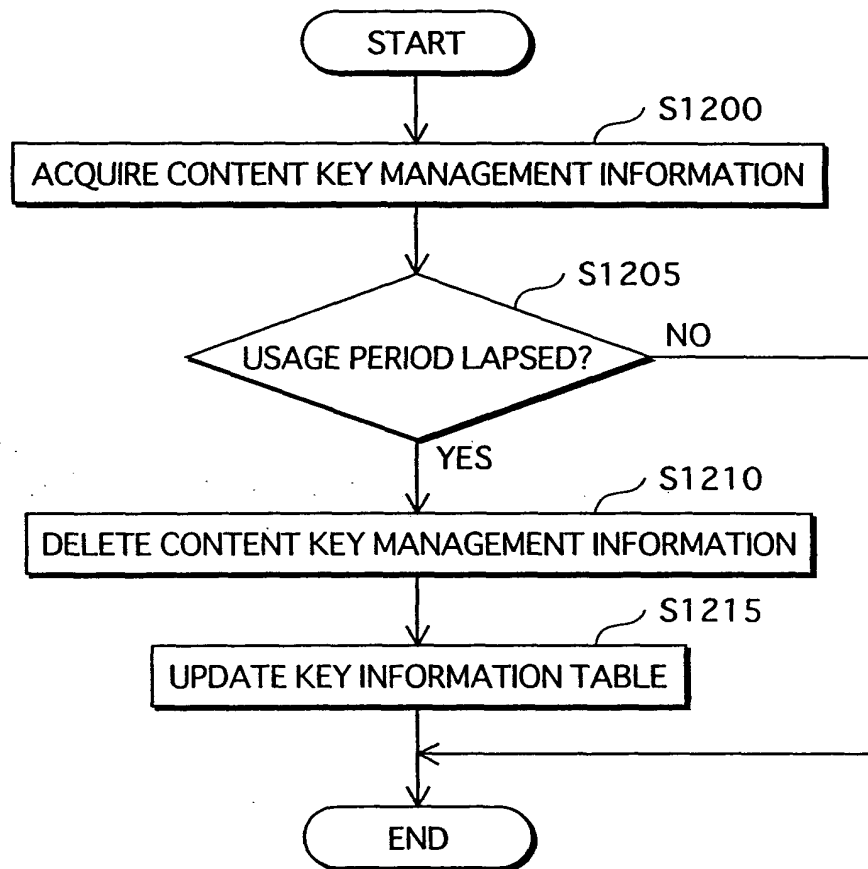


FIG.29



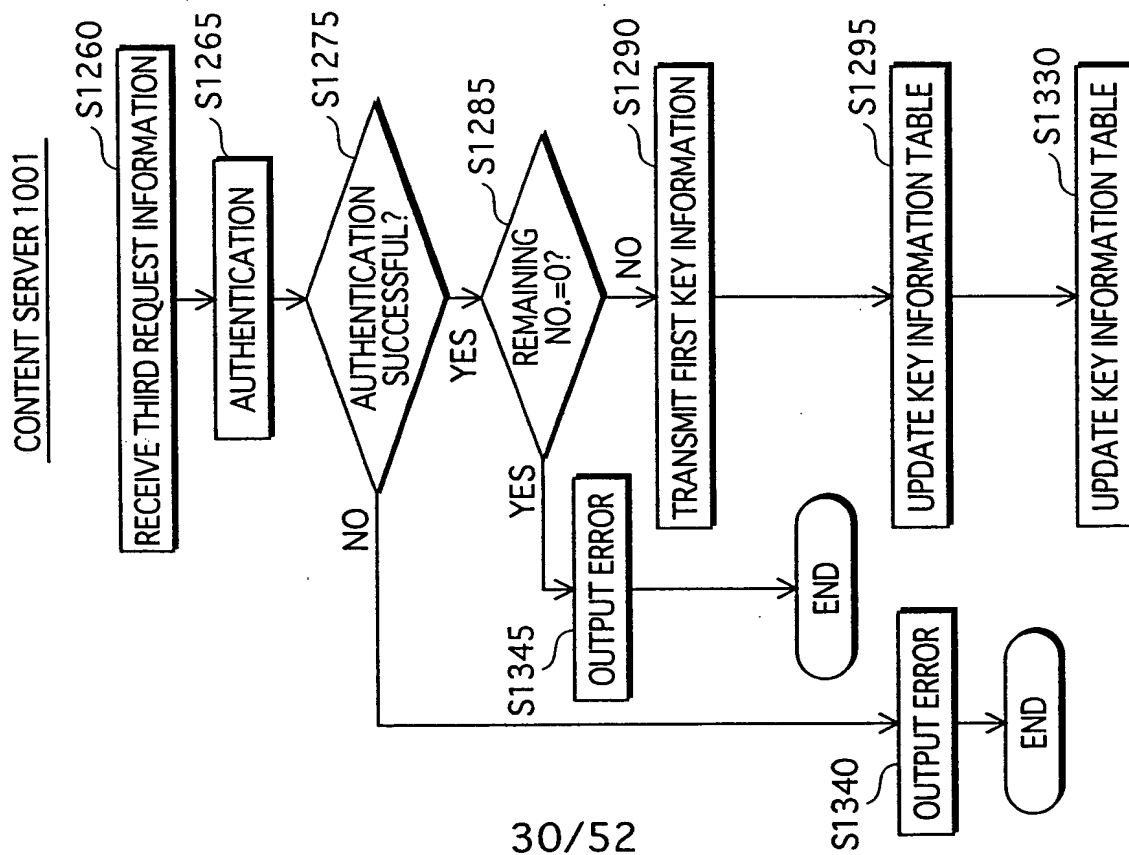
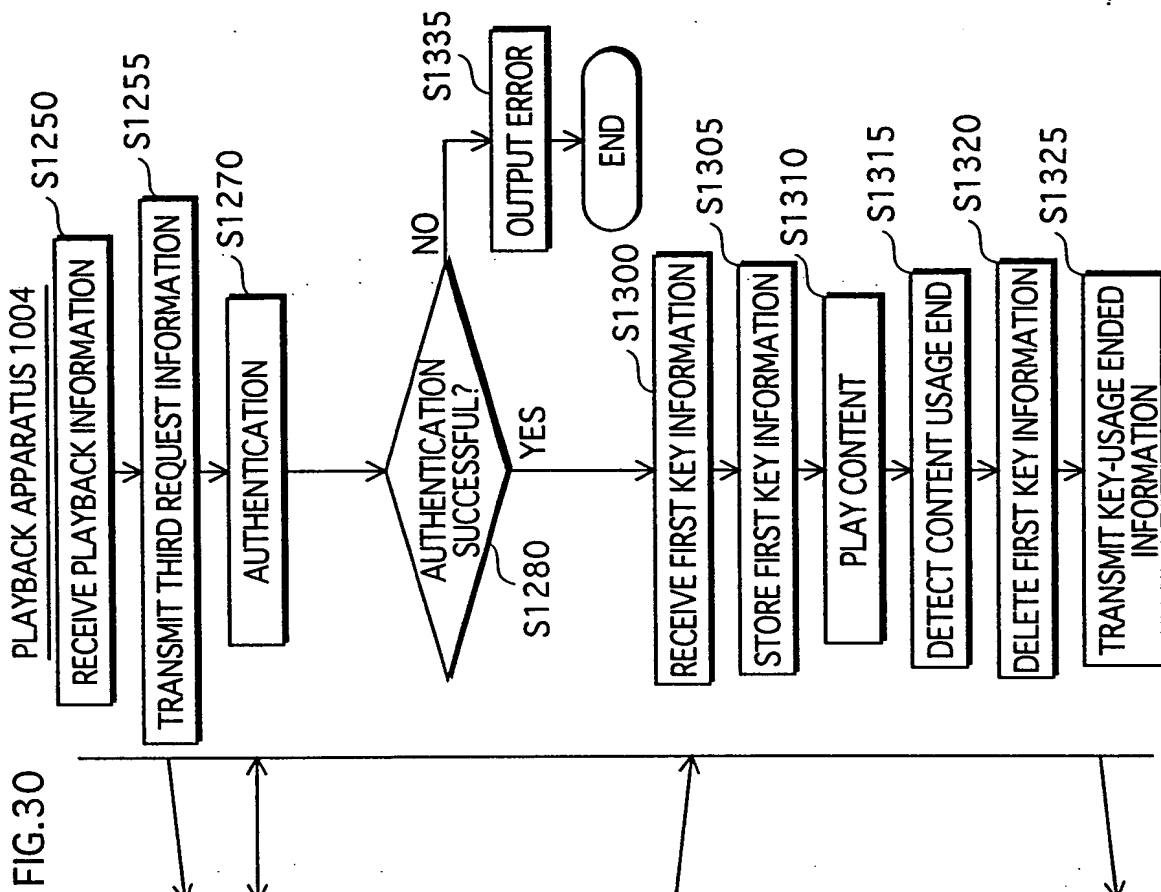


FIG.31

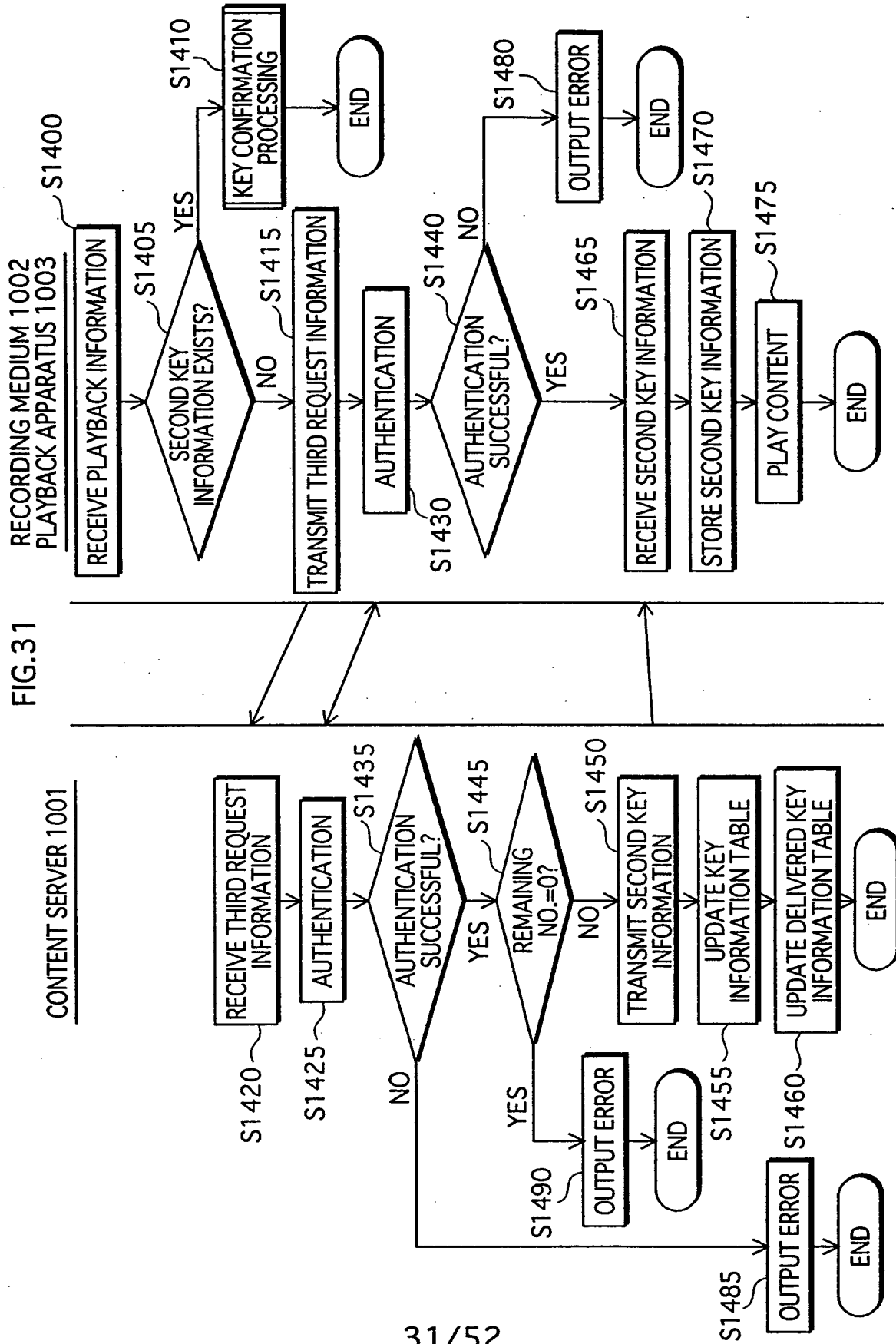


FIG.32

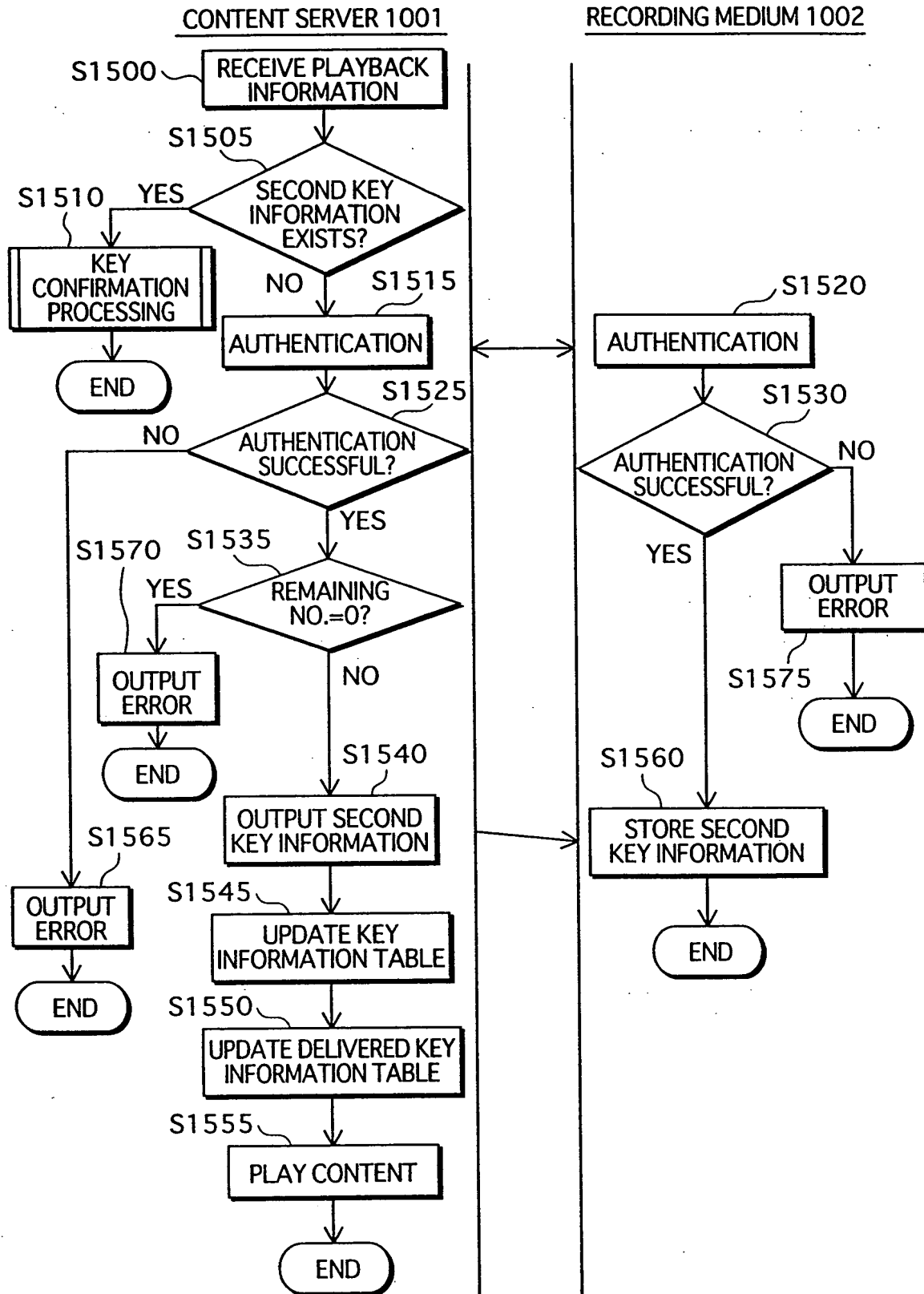


FIG.33

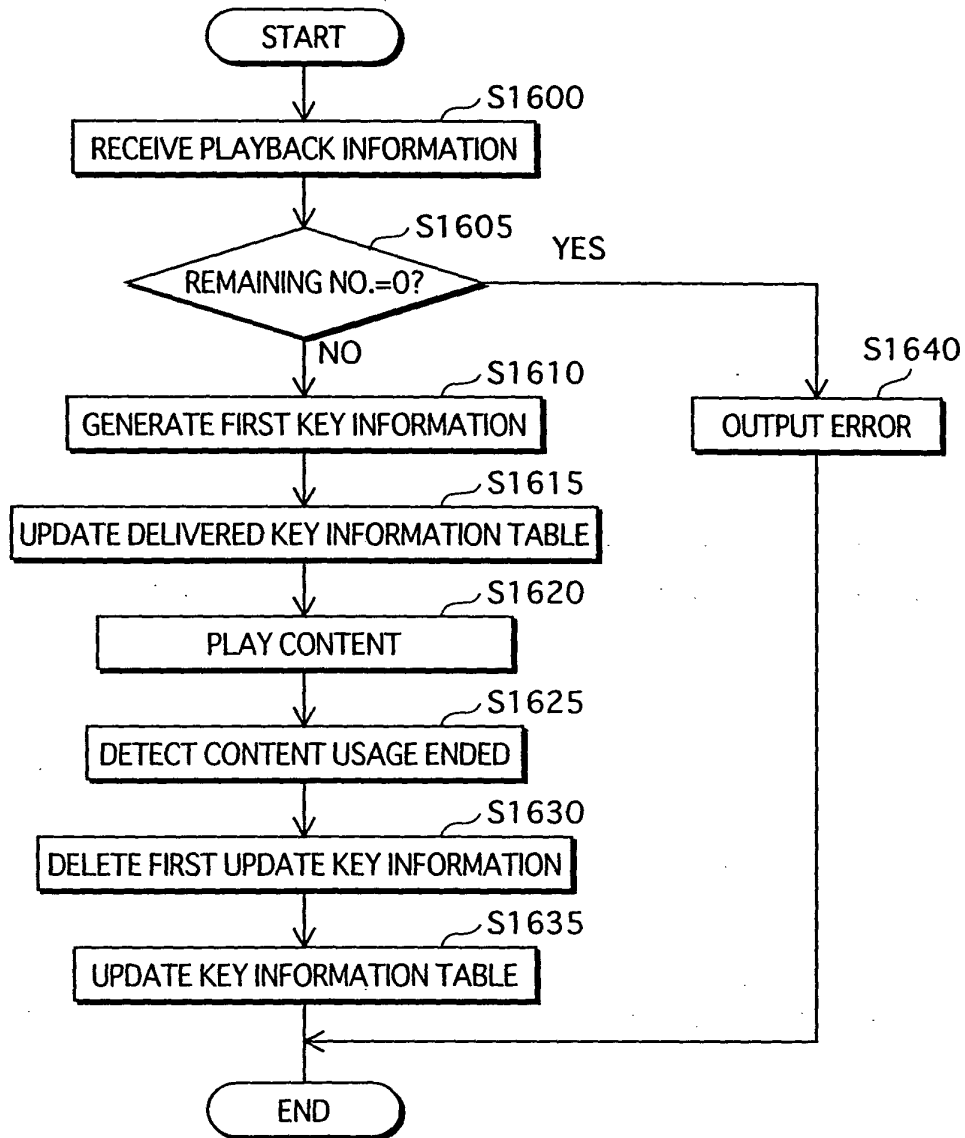
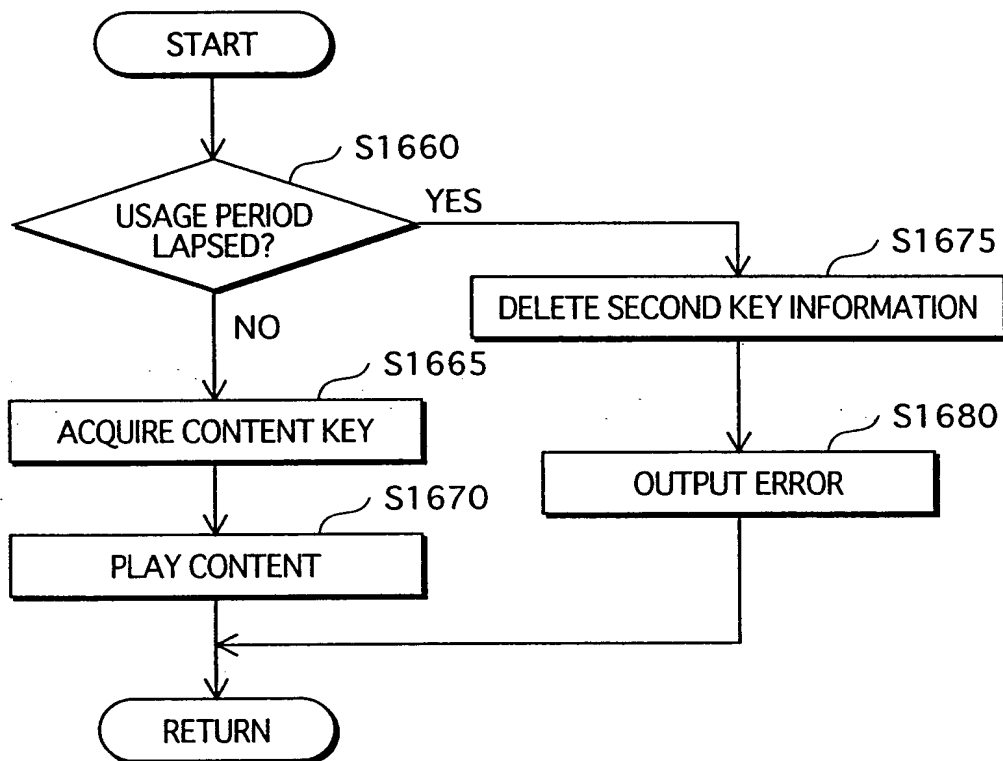


FIG.34



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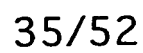


FIG.36

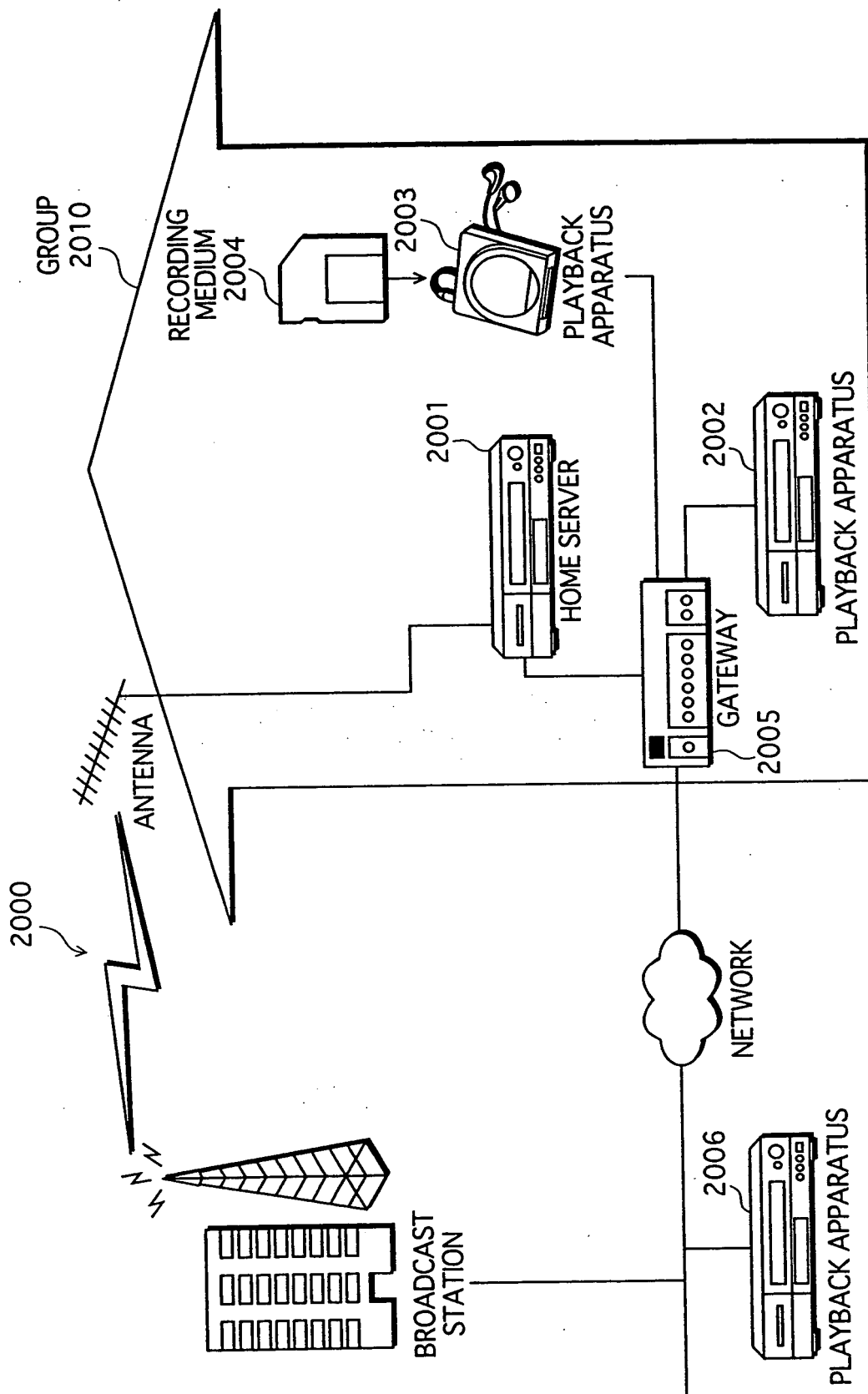


FIG.37

2001

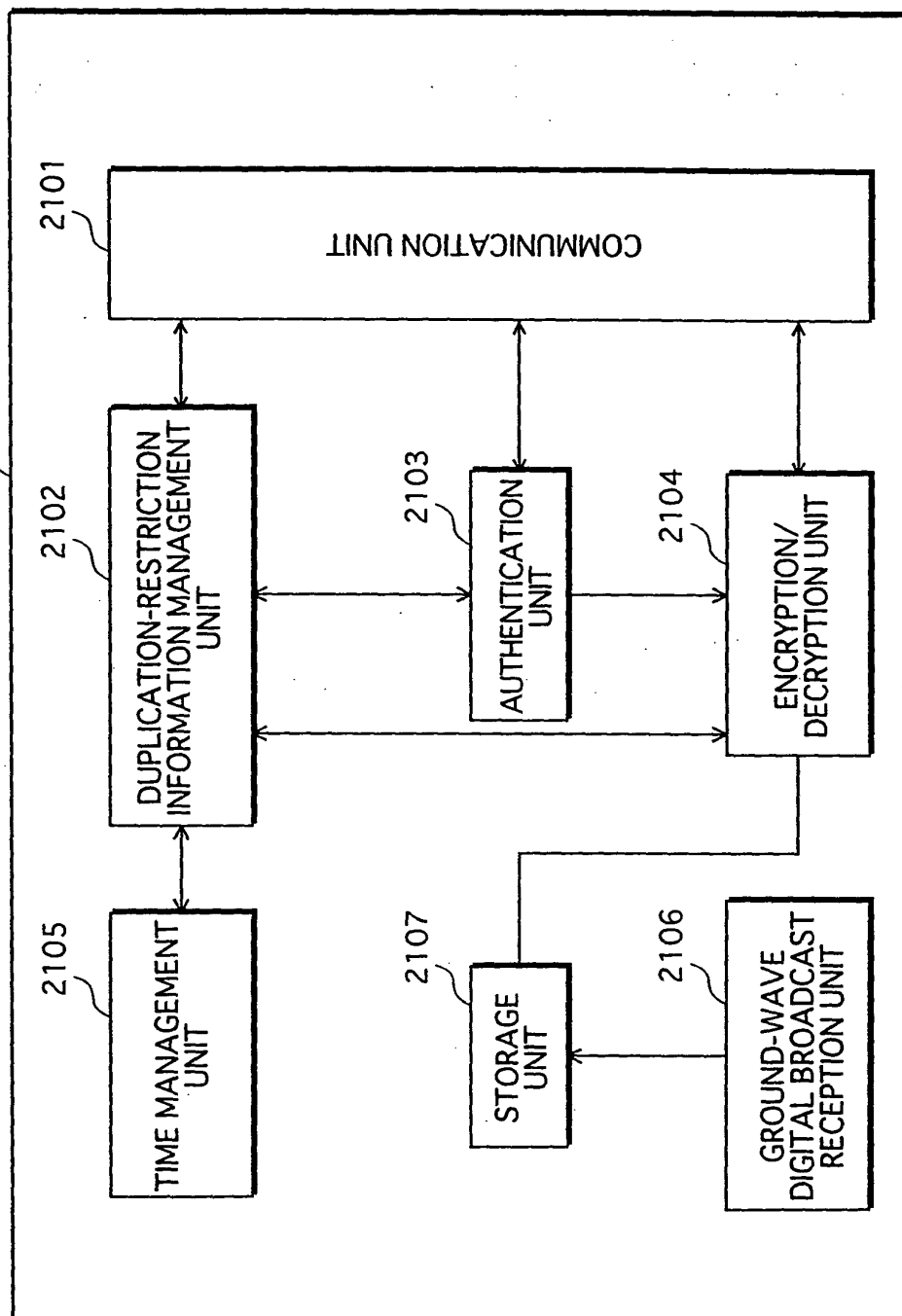


FIG.38A

CONTENT ID
IN-GROUP APPARATUS REMAINING NO.
OUT-GROUP APPARATUS REMAINING NO.
IN-GROUP MEDIUM REMAINING NO.
OUT-GROUP MEDIUM REMAINING NO.
USAGE PERIOD INFORMATION

FIG.38B

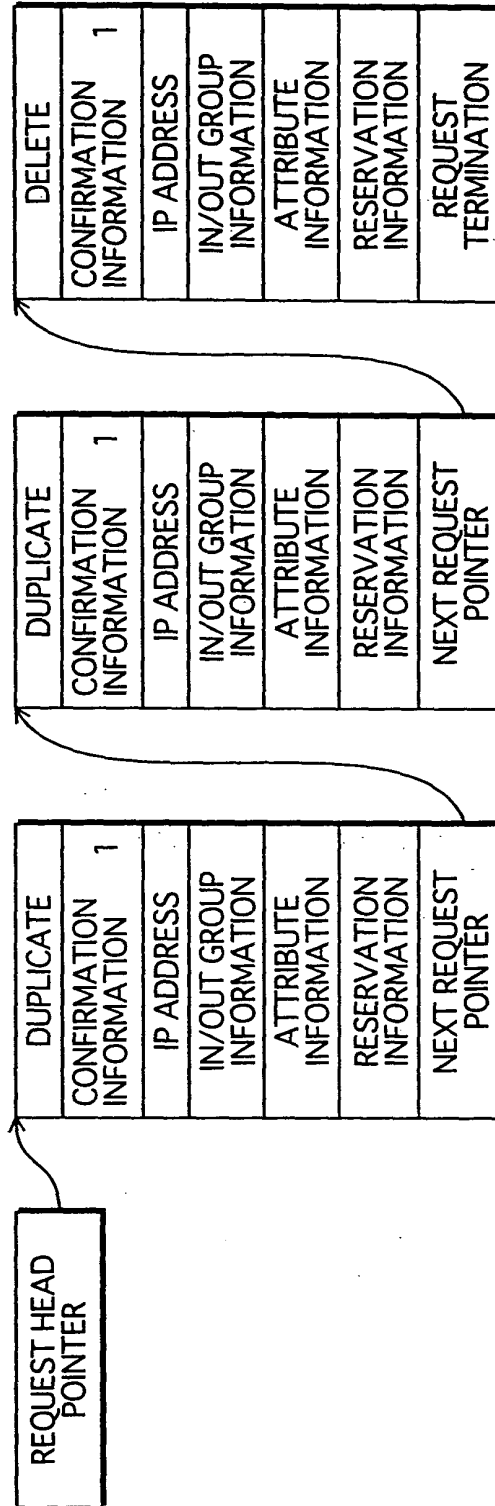
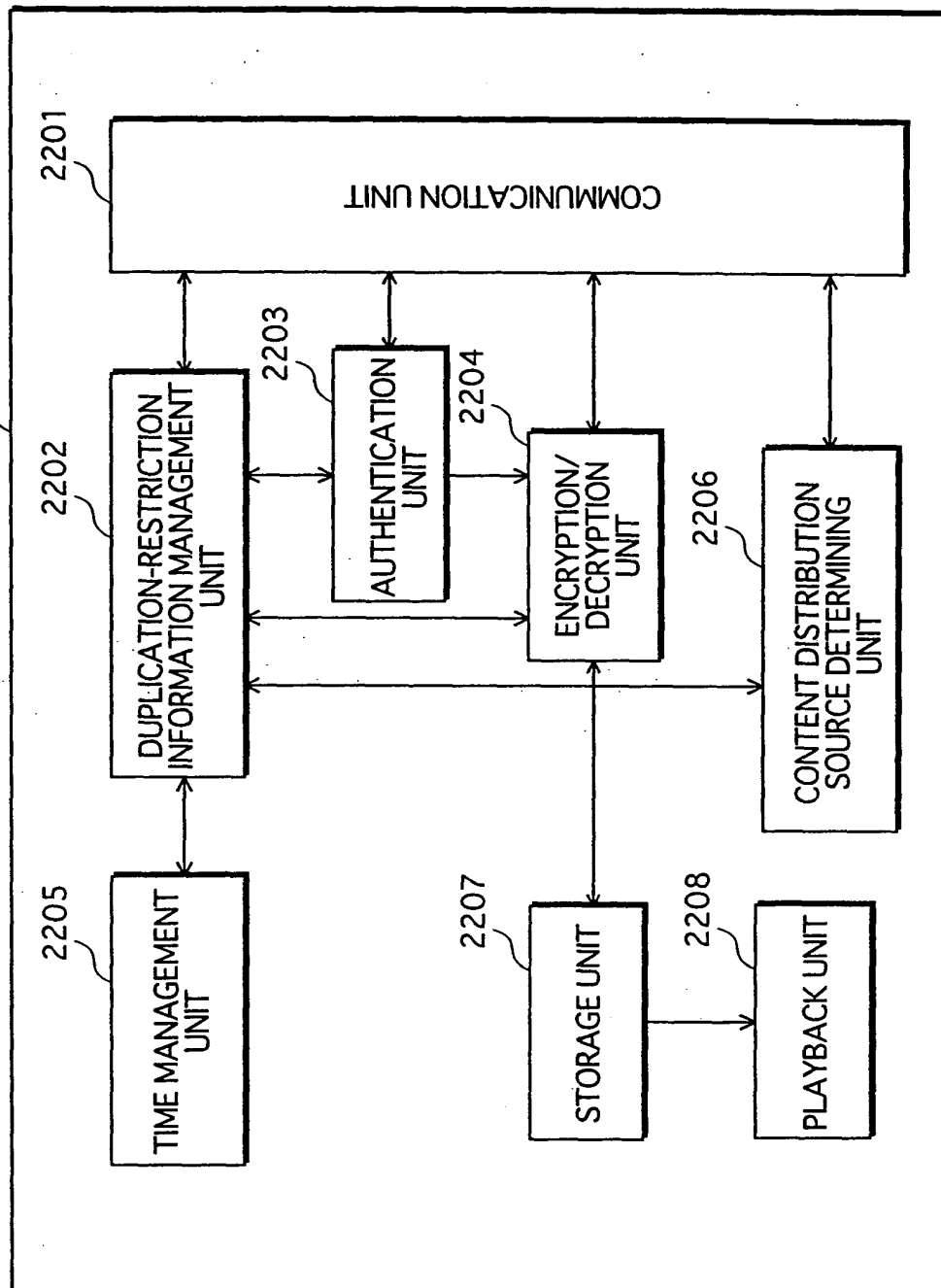


FIG. 39 2002



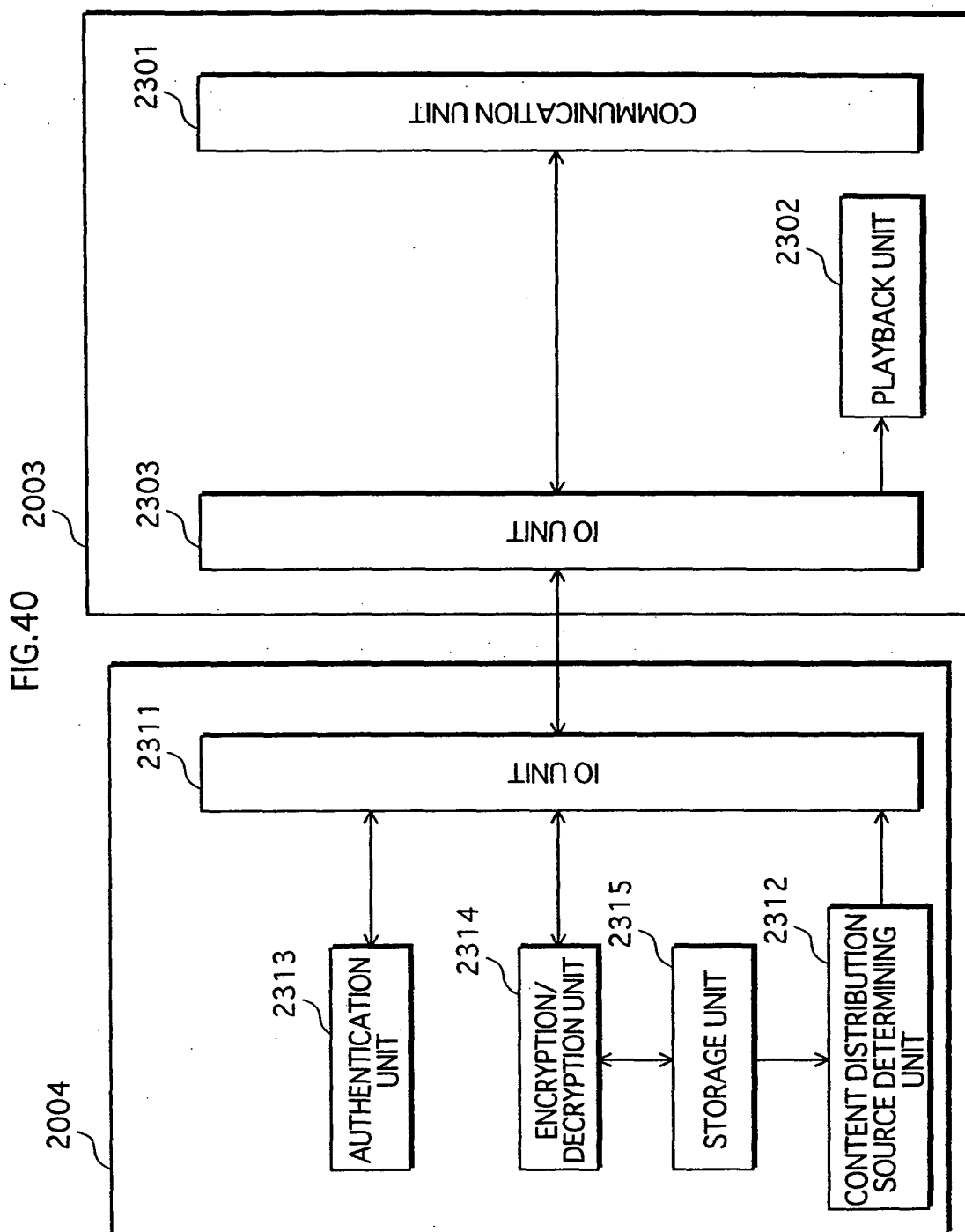


FIG.41

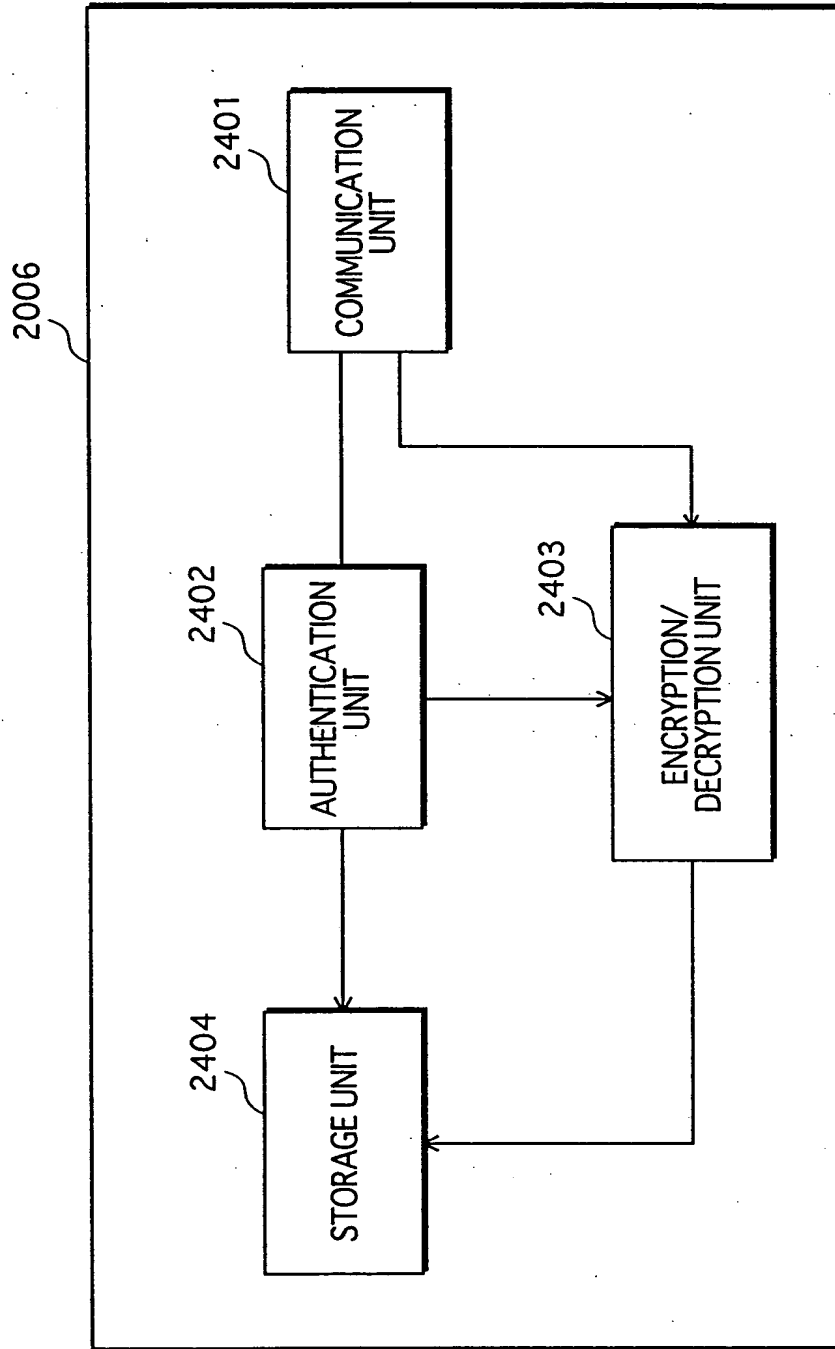


FIG.42

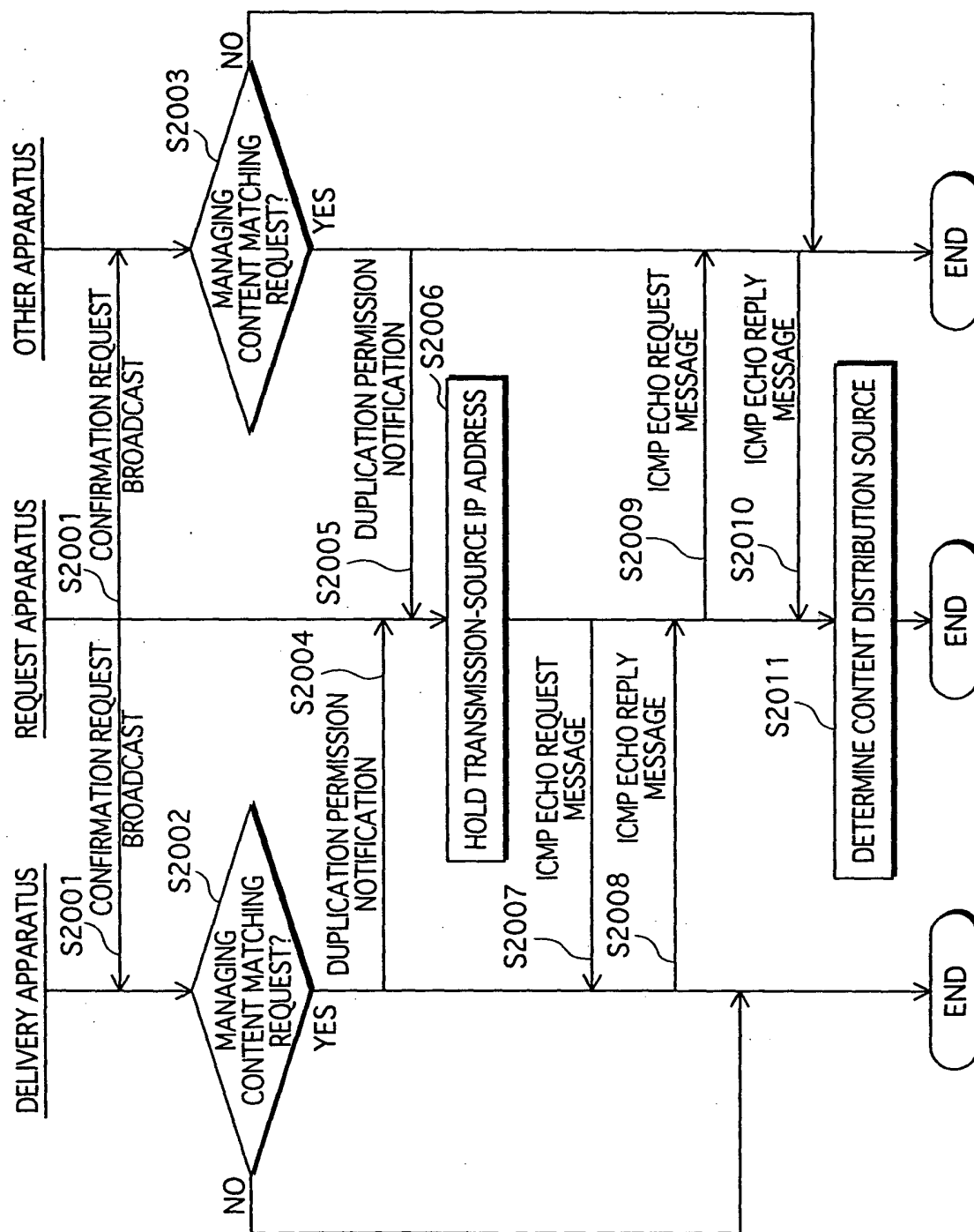


FIG.43

MUTUAL AUTHENTICATION
AND KEY SHARING

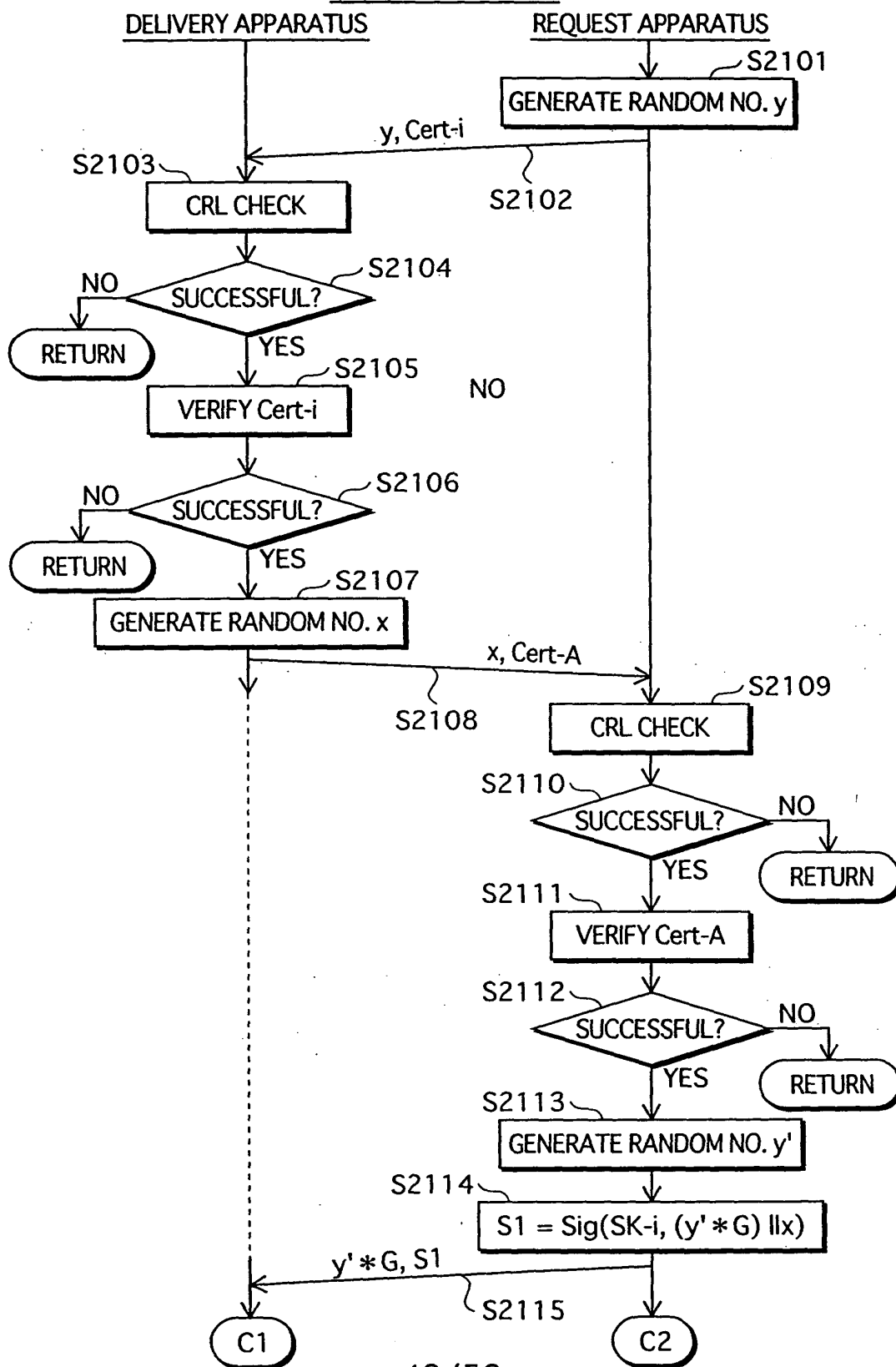


FIG.44

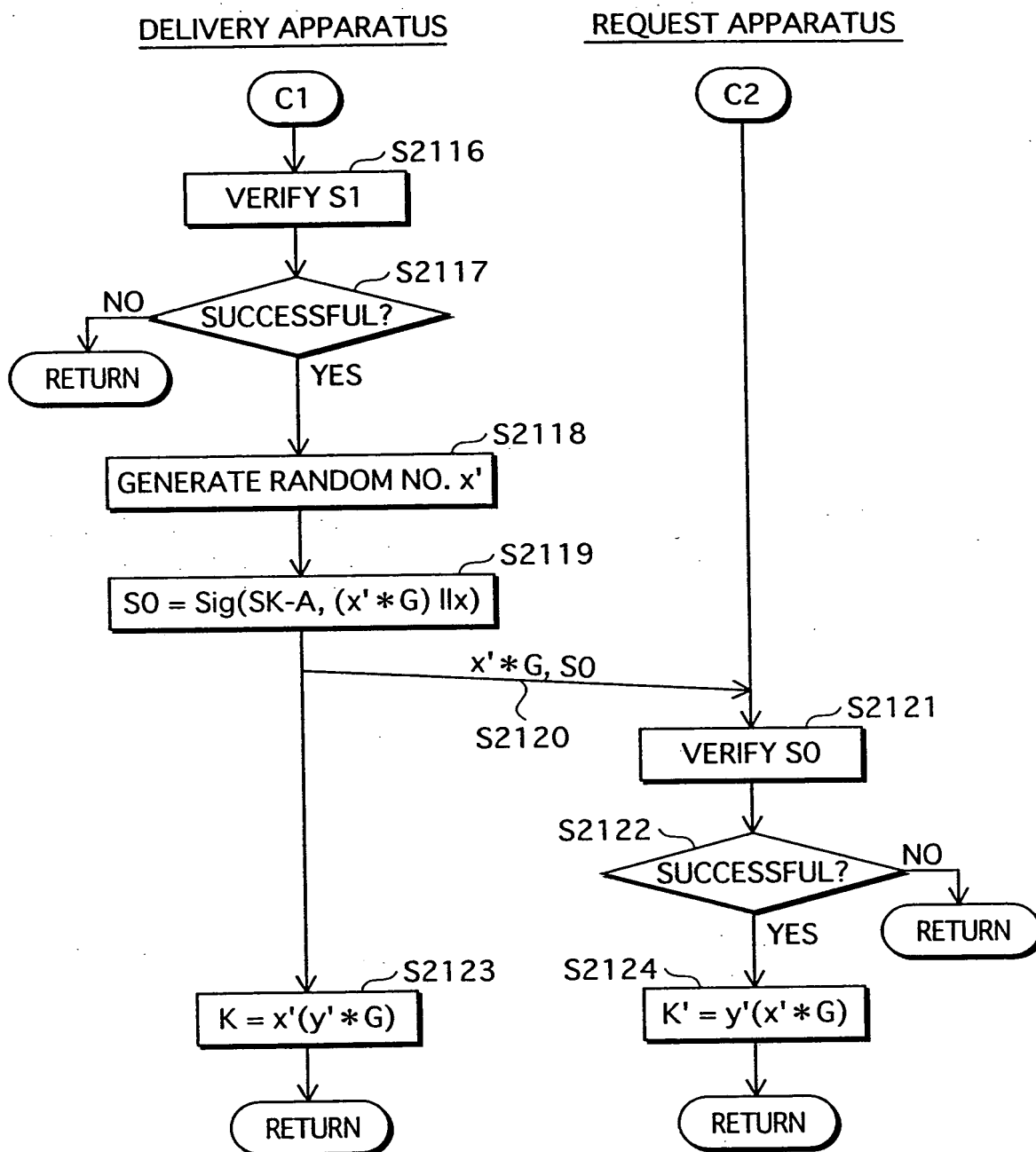


FIG.45

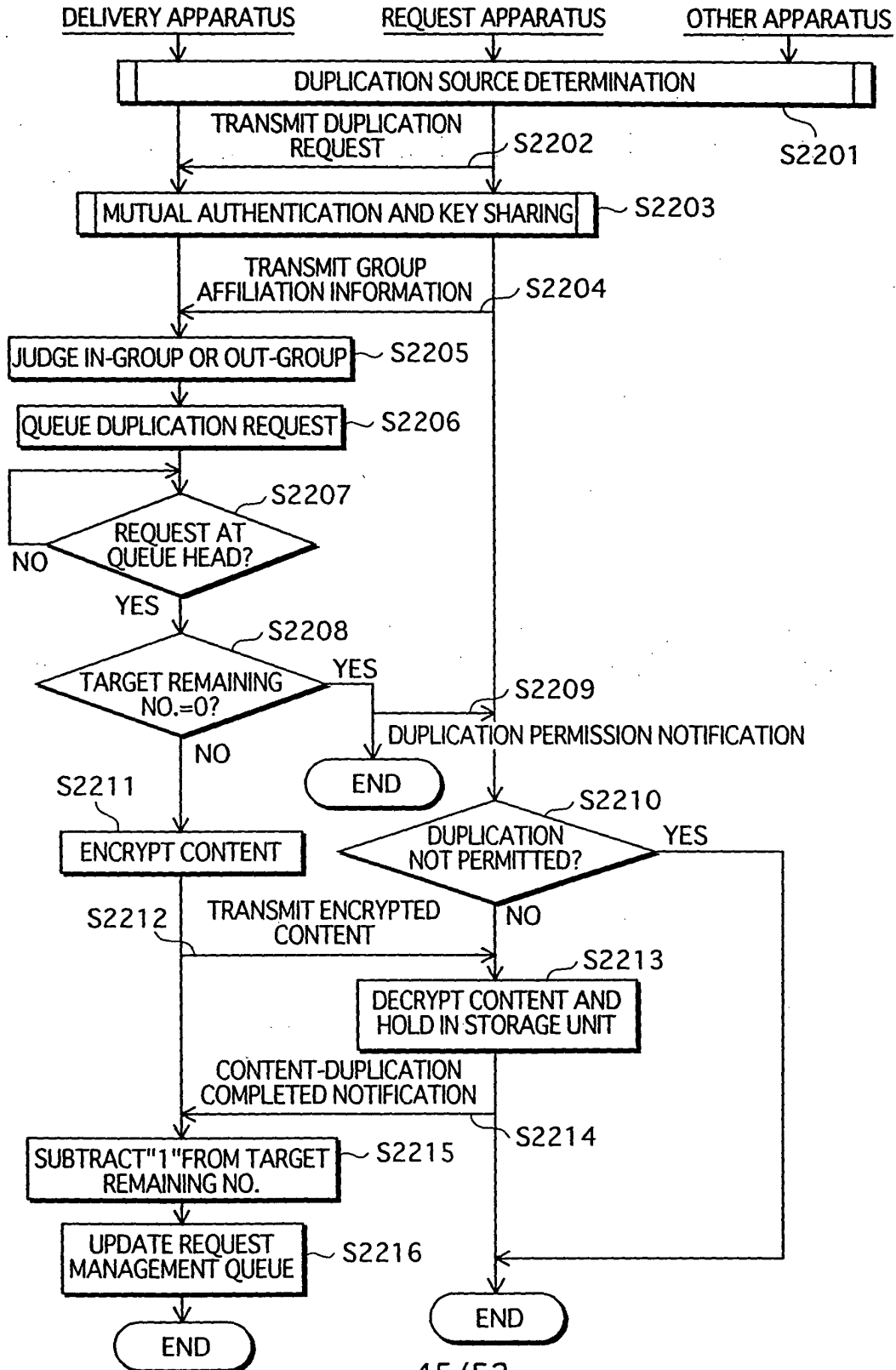


FIG.46

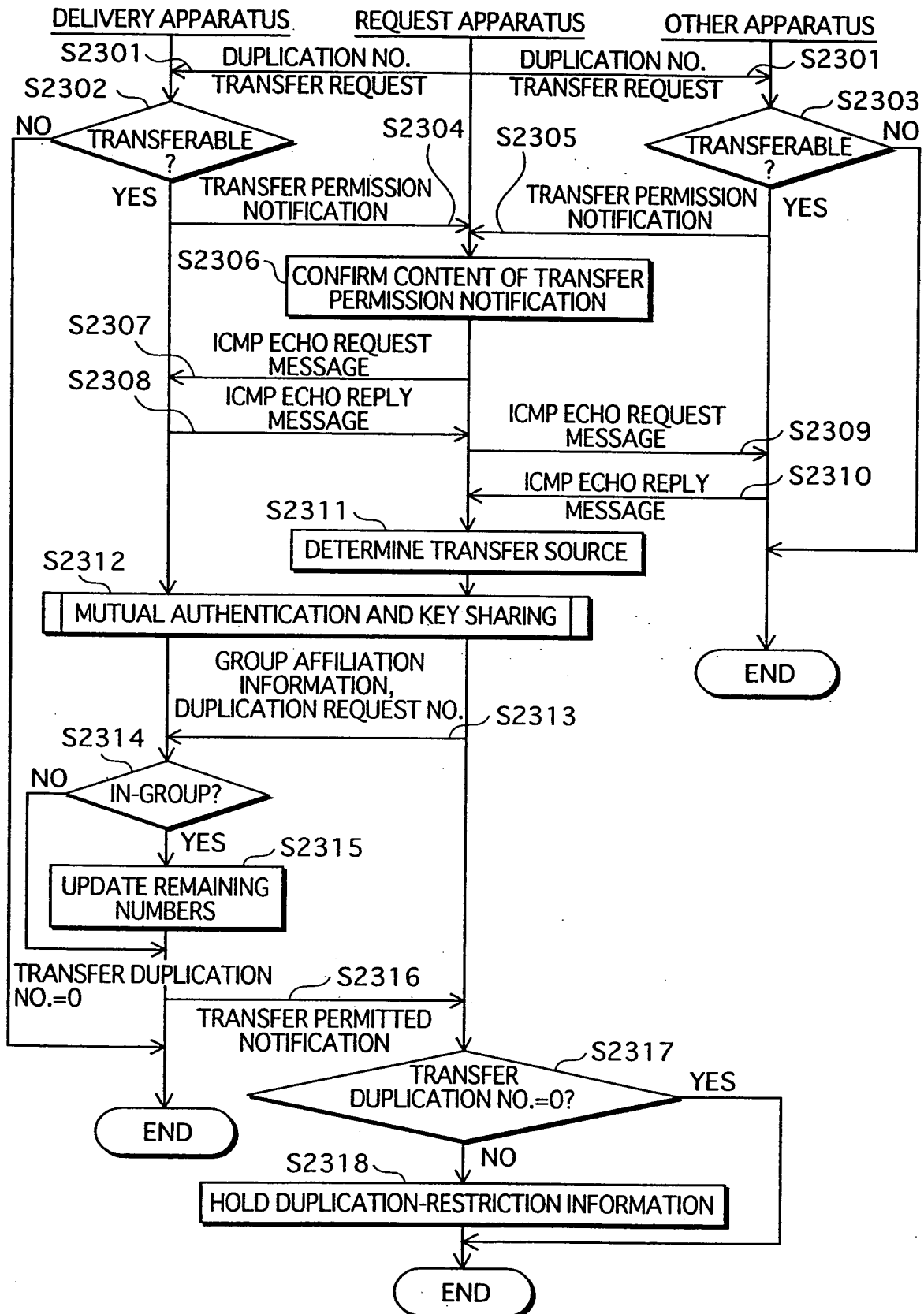


FIG.47

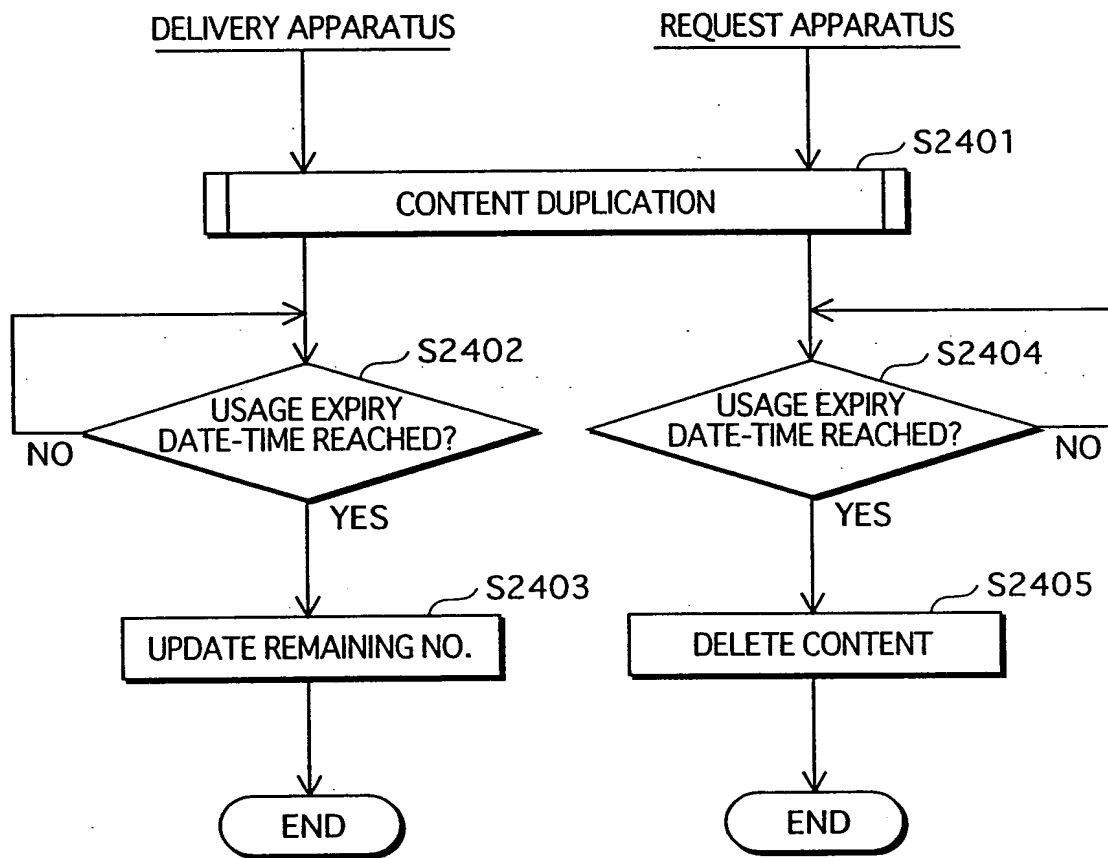


FIG.48

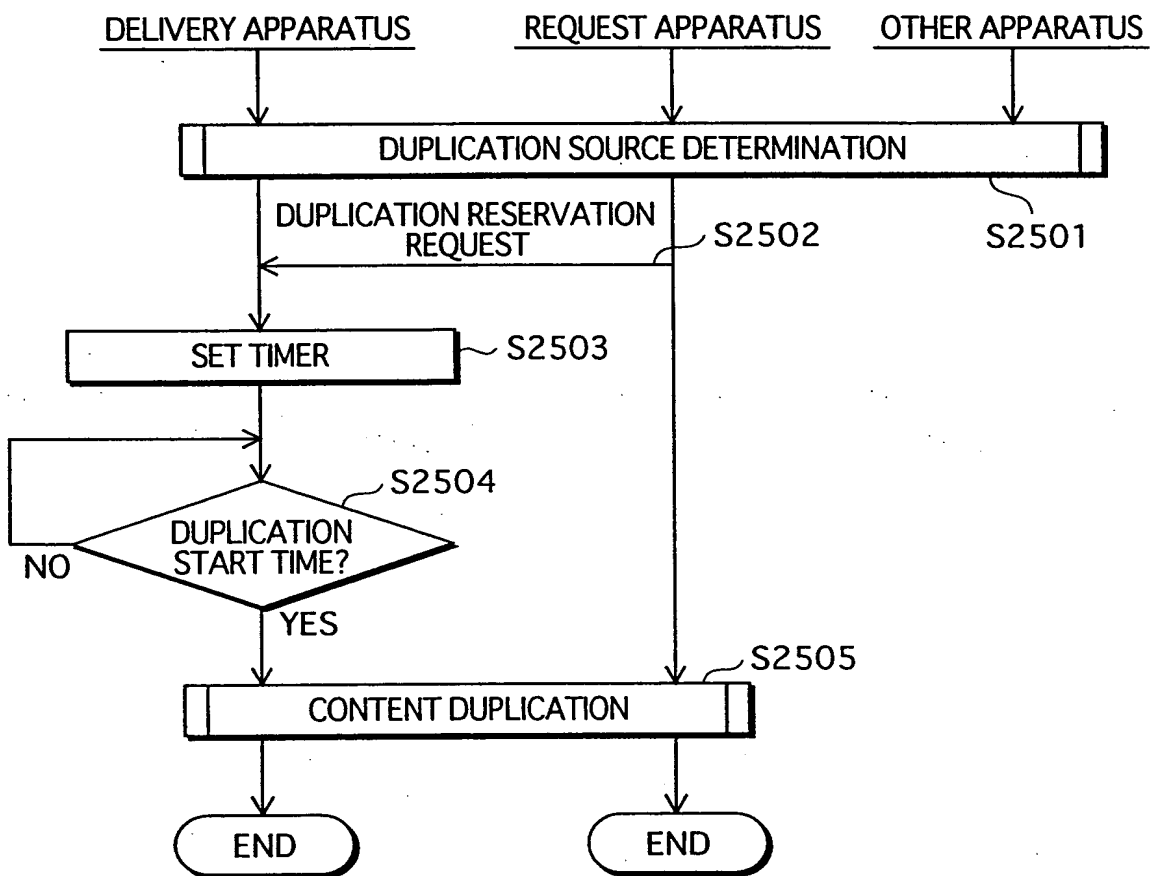


FIG.49

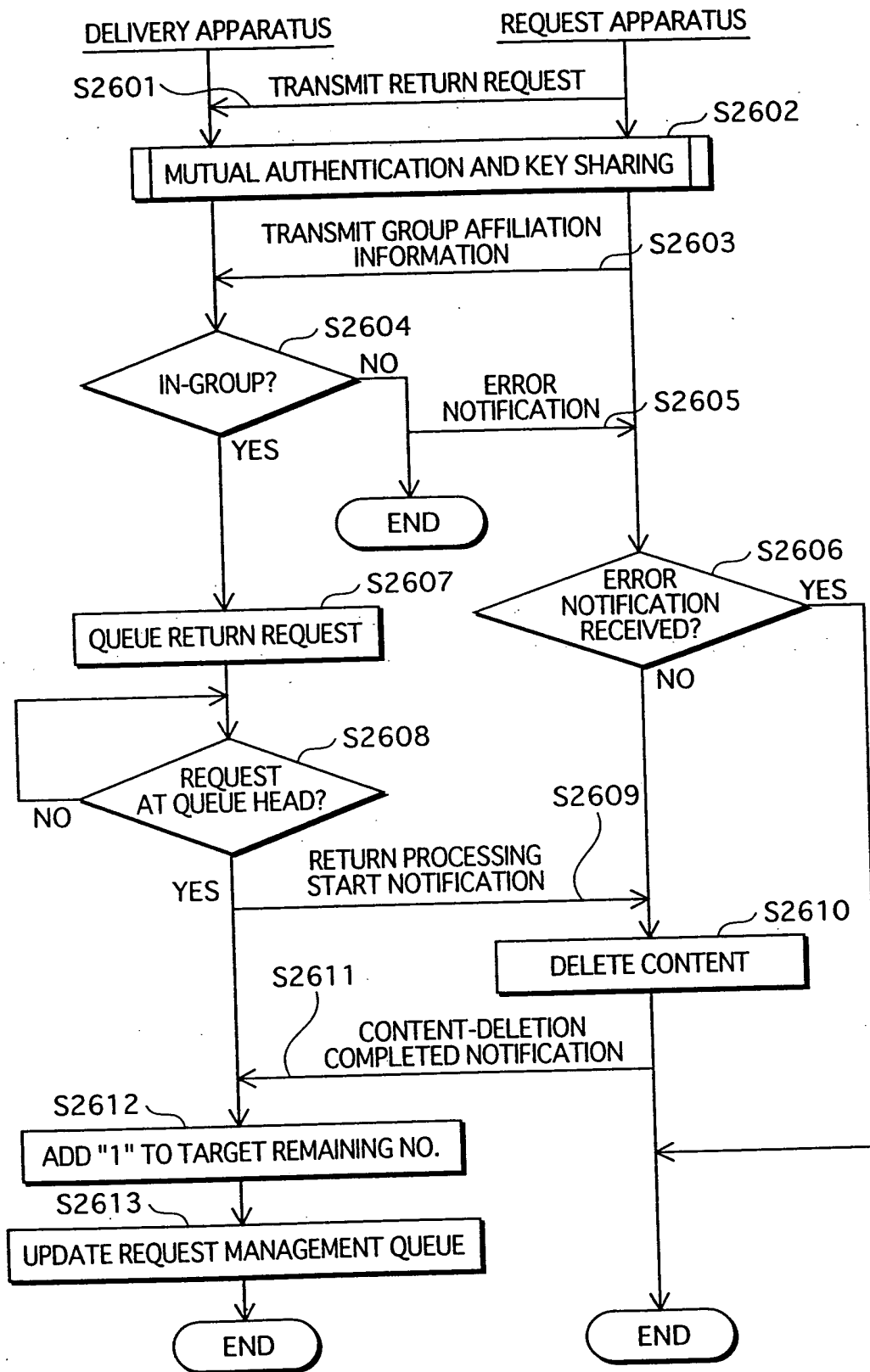


FIG.50

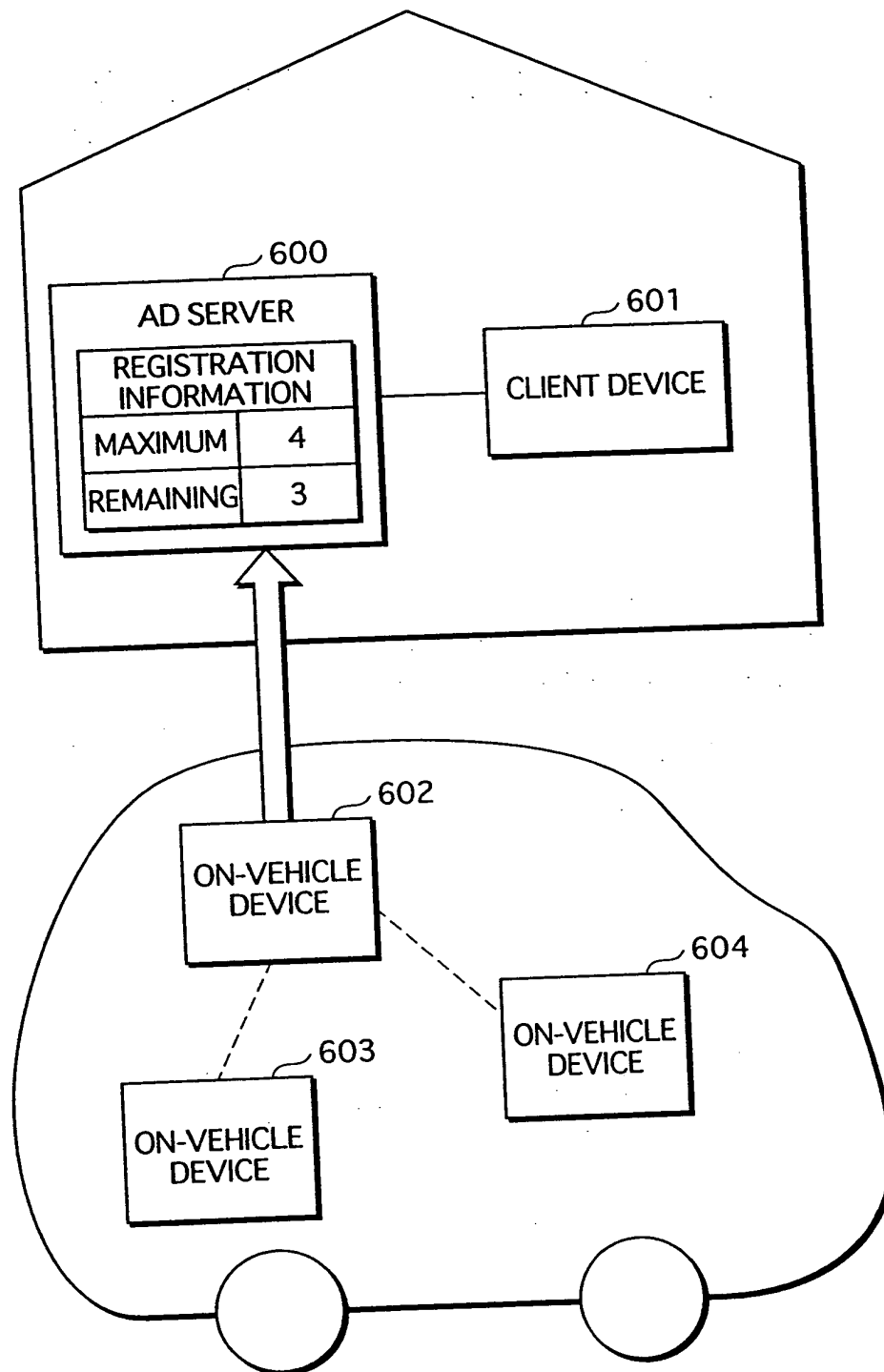


FIG.51

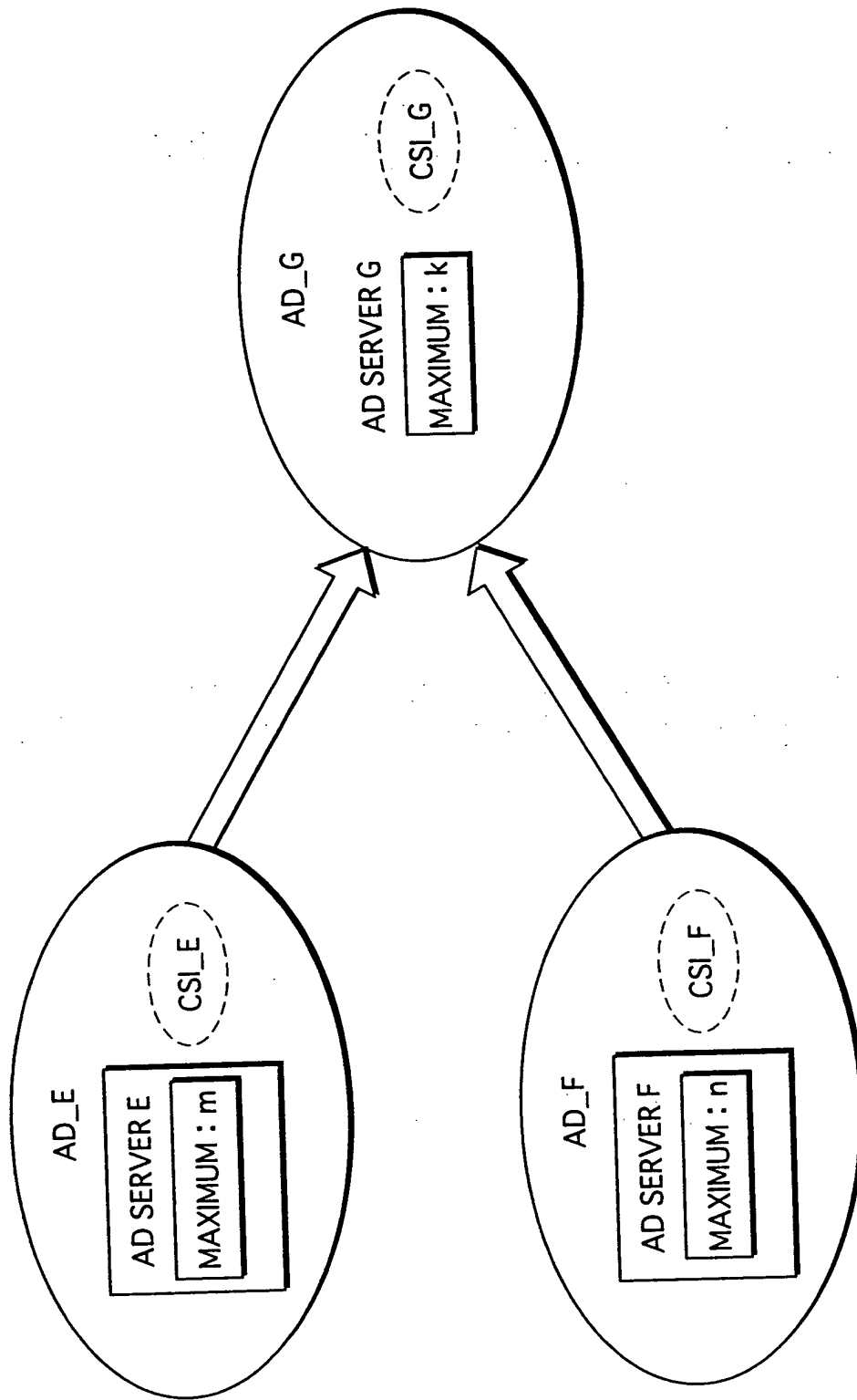


FIG. 52

